

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090619\
 Data File : VU034282.D
 Acq On : 05 Sep 2019 14:35
 Operator : JC/SP
 Sample : VU0906WBSD01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD01

Manual Integrations
 APPROVED

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 9/6/2019 3:21:57 PM

Quant Time: Sep 06 07:56:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	332568	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	480662	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	477374	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	310764	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	243580	48.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.82%	
35) Dibromofluoromethane	4.86	113	215349	48.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.30%	
50) Toluene-d8	7.55	98	842409	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
62) 4-Bromofluorobenzene	10.29	95	311362	47.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	65338	18.785	ug/l	98
3) Chloromethane	1.32	50	78463	20.830	ug/l	99
4) Vinyl Chloride	1.40	62	79868	18.427	ug/l	98
5) Bromomethane	1.62	94	49910	20.149	ug/l	97
6) Chloroethane	1.69	64	53424	20.619	ug/l	99
7) Trichlorofluoromethane	1.88	101	110869	19.078	ug/l	99
8) Diethyl Ether	2.09	74	50835	19.886	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.27	101	74014	19.229	ug/l	99
10) Methyl Iodide	2.40	142	49299	16.769	ug/l	99
11) Tert butyl alcohol	2.81	59	109176	102.701	ug/l	99
12) 1,1-Dichloroethene	2.27	96	70092	19.371	ug/l	97
13) Acrolein	2.18	56	73837	82.640	ug/l	99
14) Allyl chloride	2.58	41	134821m	19.490	ug/l	
15) Acrylonitrile	2.92	53	269979	101.985	ug/l	99
16) Acetone	2.31	43	232616	89.332	ug/l	99
17) Carbon Disulfide	2.47	76	150951	18.562	ug/l	99
18) Methyl Acetate	2.60	43	118175	18.651	ug/l	98
19) Methyl tert-butyl Ether	2.98	73	268014	20.322	ug/l	100
20) Methylene Chloride	2.69	84	89255	20.693	ug/l	97
21) trans-1,2-Dichloroethene	2.97	96	73114	19.175	ug/l	99
22) Diisopropyl ether	3.55	45	280682	20.806	ug/l	91
23) Vinyl Acetate	3.51	43	1142243	103.947	ug/l	100
24) 1,1-Dichloroethane	3.43	63	157225	19.516	ug/l	100
25) 2-Butanone	4.24	43	350646	100.878	ug/l	98
26) 2,2-Dichloropropane	4.21	77	124061	19.147	ug/l	100
27) cis-1,2-Dichloroethene	4.21	96	94521	20.410	ug/l	99
28) Bromochloromethane	4.52	49	66693	17.998	ug/l	99
29) Tetrahydrofuran	4.62	42	222514	105.201	ug/l	99
30) Chloroform	4.65	83	155198	18.952	ug/l	98
31) Cyclohexane	4.97	56	117268	19.897	ug/l	98
32) 1,1,1-Trichloroethane	4.89	97	127117	19.415	ug/l	99
36) 1,1-Dichloropropene	5.12	75	102617	19.685	ug/l	98
37) Ethyl Acetate	4.36	43	124938	20.271	ug/l	99
38) Carbon Tetrachloride	5.11	117	107299	19.278	ug/l	98

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Manual Integrations
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Quant Time: Sep 06 07:56:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	111477	20.005	ug/l	99
40) Benzene	5.37	78	333486	19.826	ug/l	99
41) Methacrylonitrile	4.52	41	68895	20.986	ug/l	99
42) 1,2-Dichloroethane	5.38	62	116677	19.979	ug/l	100
43) Isopropyl Acetate	5.53	43	192374	20.009	ug/l	100
44) Trichloroethene	6.17	130	92260	19.821	ug/l	99
45) 1,2-Dichloropropane	6.41	63	98639	20.059	ug/l	98
46) Dibromomethane	6.54	93	60786	19.693	ug/l	99
47) Bromodichloromethane	6.74	83	123292	19.405	ug/l	100
48) Methyl methacrylate	6.60	41	92491	20.254	ug/l	99
49) 1,4-Dioxane	6.59	88	41949	420.681	ug/l	99
51) 4-Methyl-2-Pentanone	7.44	43	680154	102.199	ug/l	99
52) Toluene	7.62	92	213504	20.234	ug/l	99
53) t-1,3-Dichloropropene	7.86	75	127972	19.430	ug/l	99
54) cis-1,3-Dichloropropene	7.25	75	143987	19.919	ug/l	99
55) 1,1,2-Trichloroethane	8.05	97	94406	19.704	ug/l	98
56) Ethyl methacrylate	8.00	69	134789	20.454	ug/l	100
57) 1,3-Dichloropropane	8.22	76	153806	19.714	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.11	63	210790	96.519	ug/l	100
59) 2-Hexanone	8.34	43	507883	102.153	ug/l	100
60) Dibromochloromethane	8.46	129	99594	19.380	ug/l	96
61) 1,2-Dibromoethane	8.57	107	92769	19.782	ug/l	98
64) Tetrachloroethene	8.21	164	82499	19.920	ug/l	95
65) Chlorobenzene	9.10	112	243582	20.112	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.19	131	89634	19.393	ug/l	98
67) Ethyl Benzene	9.23	91	404524	20.428	ug/l	98
68) m/p-Xylenes	9.36	106	313364	42.024	ug/l	99
69) o-Xylene	9.76	106	149461	20.495	ug/l	97
70) Styrene	9.77	104	271662	21.247	ug/l	99
71) Bromoform	9.94	173	78102	19.497	ug/l #	99
73) Isopropylbenzene	10.15	105	419430	20.739	ug/l	100
74) N-amyl acetate	10.00	43	171578	21.077	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.44	83	160533	19.610	ug/l	99
76) 1,2,3-Trichloropropane	10.48	75	128873m	18.998	ug/l	
77) Bromobenzene	10.43	156	115995	20.513	ug/l	99
78) n-propylbenzene	10.57	91	484831	20.758	ug/l	100
79) 2-Chlorotoluene	10.64	91	296861	20.831	ug/l	99
80) 1,3,5-Trimethylbenzene	10.75	105	364778	21.567	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.49	75	44484m	22.053	ug/l	
82) 4-Chlorotoluene	10.75	91	338514	20.641	ug/l	99
83) tert-Butylbenzene	11.08	119	351355	20.765	ug/l	100
84) 1,2,4-Trimethylbenzene	11.13	105	365871	21.489	ug/l	99
85) sec-Butylbenzene	11.31	105	424321	21.242	ug/l	100
86) p-Isopropyltoluene	11.46	119	390285	21.168	ug/l	99
87) 1,3-Dichlorobenzene	11.40	146	208724	20.228	ug/l	100
88) 1,4-Dichlorobenzene	11.49	146	213830	19.867	ug/l	99
89) n-Butylbenzene	11.87	91	340300	21.239	ug/l	99
90) Hexachloroethane	12.12	117	56815	19.261	ug/l	99
91) 1,2-Dichlorobenzene	11.86	146	206316	20.344	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.64	75	31267	20.786	ug/l	99

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MSVOA_U
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VU0906WBSD01

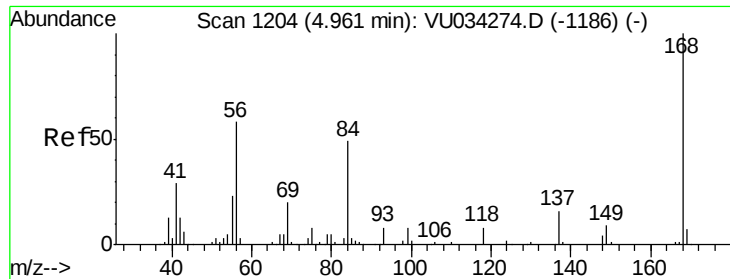
Manual Integrations
APPROVED

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9/6/2019 3:21:57 PM

Quant Time: Sep 06 07:56:12 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	139178	21.068	ug/l	97
94) Hexachlorobutadiene	13.67	225	69843	19.689	ug/l	99
95) Naphthalene	13.73	128	384946	21.078	ug/l	99
96) 1,2,3-Trichlorobenzene	13.97	180	135488	20.704	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion:168 Resp: 332568

Ion Ratio Lower Upper

168 100

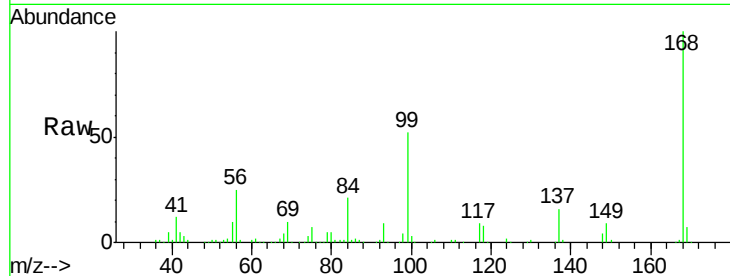
99 51.6 41.6 62.4

Manual Integrations

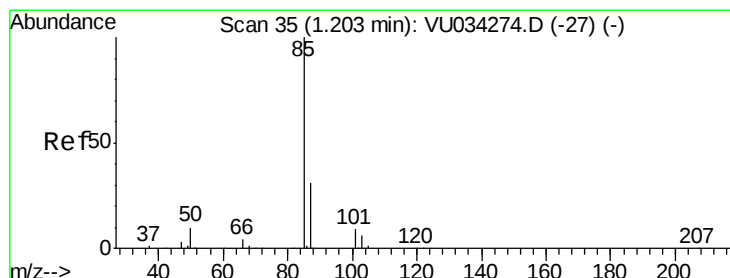
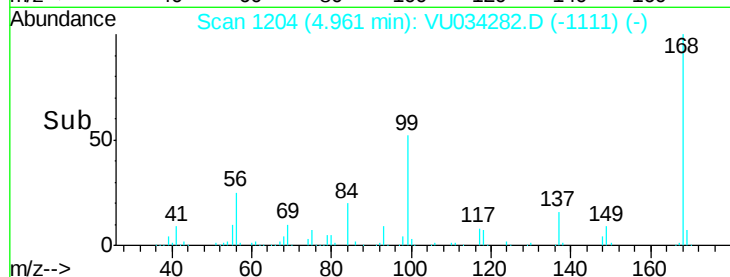
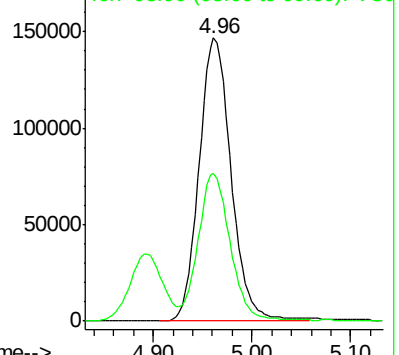
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Abundance Ion 167.90 (167.60 to 168.60): VU034282.D (-1111) (-)



#2

Dichlorodifluoromethane

Concen: 18.785 ug/l

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU034282.D

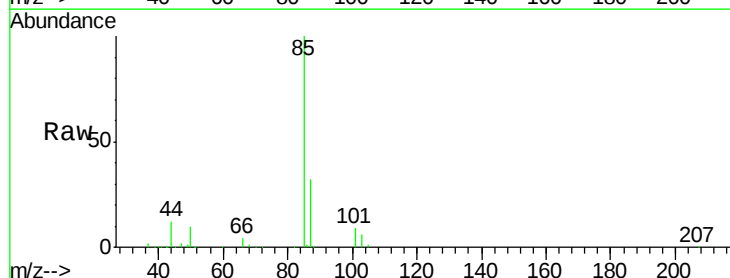
Acq: 05 Sep 2019 14:35

Tgt Ion: 85 Resp: 65338

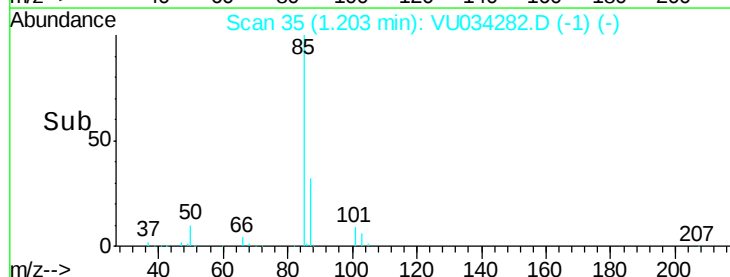
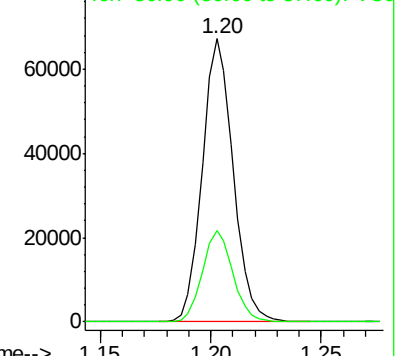
Ion Ratio Lower Upper

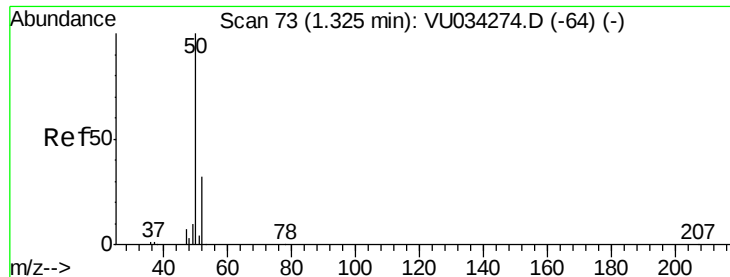
85 100

87 32.2 15.7 47.0



Abundance Ion 84.90 (84.60 to 85.60): VU034282.D (-1) (-)





#3

Chloromethane

Concen: 20.830 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion: 50 Resp: 78463

Ion Ratio Lower Upper

50 100

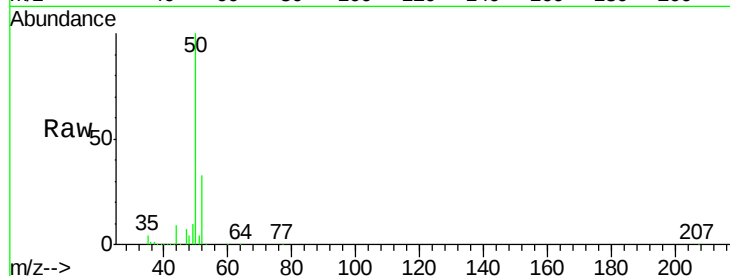
52 32.7 25.8 38.6

Manual Integrations

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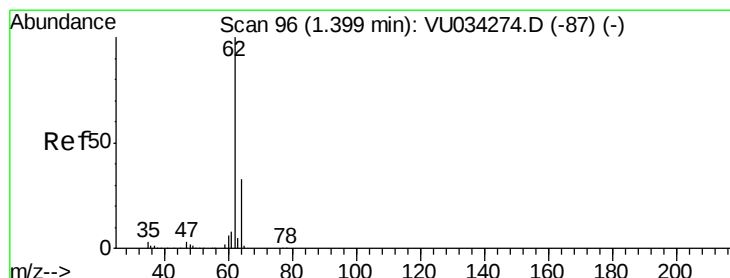
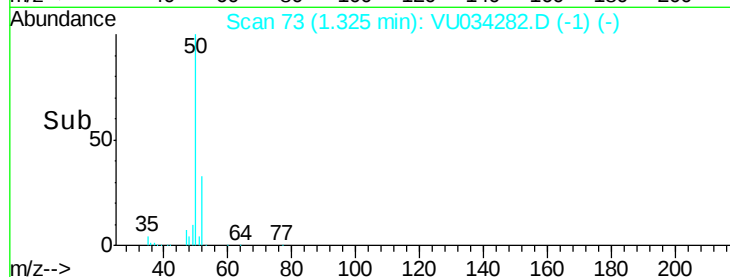
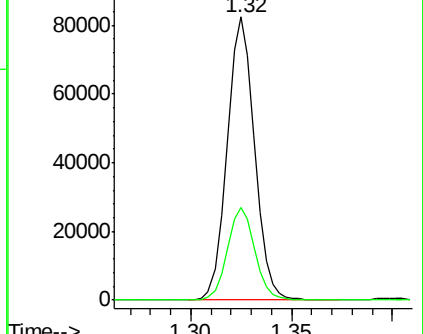
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Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 18.427 ug/l

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034282.D

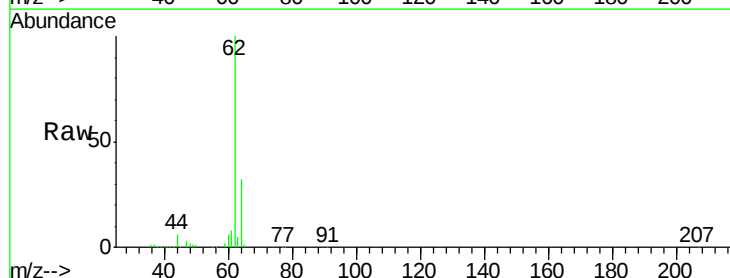
Acq: 05 Sep 2019 14:35

Tgt Ion: 62 Resp: 79868

Ion Ratio Lower Upper

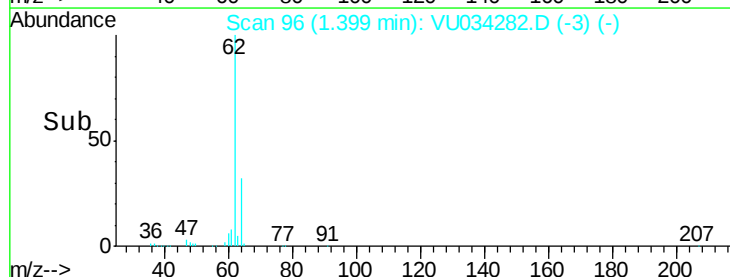
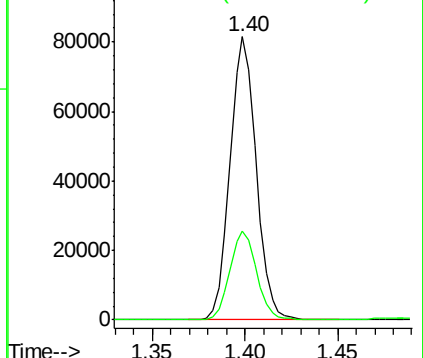
62 100

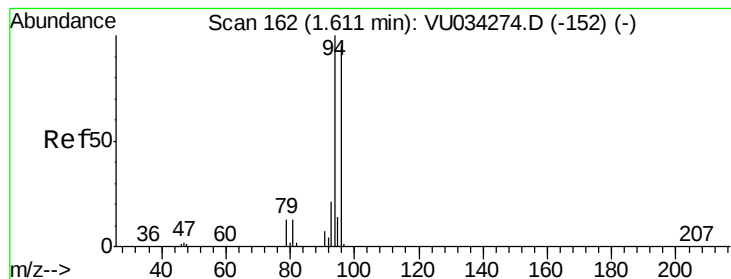
64 31.6 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 20.149 ug/l

RT: 1.62 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion: 94 Resp: 49910

Ion Ratio Lower Upper

94 100

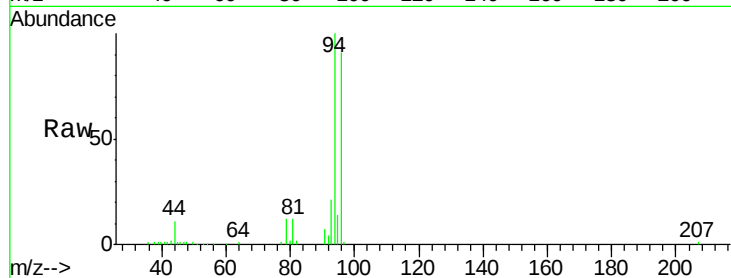
96 91.3 75.7 113.5

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VU034282.D (-68) (-)

Ion 95.90 (95.60 to 96.60): VU034282.D (-68) (-)

1.62

40000

30000

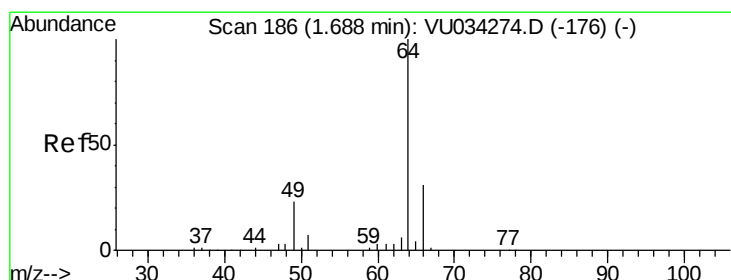
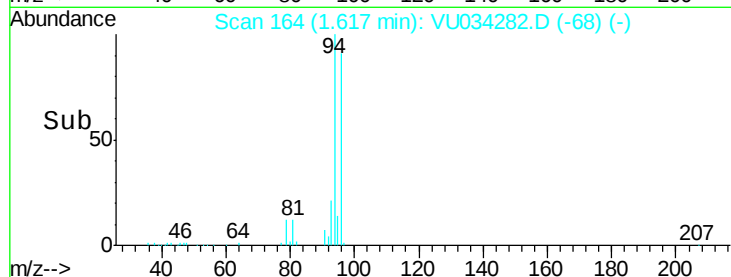
20000

10000

0

Time-->

1.55 1.60 1.65 1.70



#6

Chloroethane

Concen: 20.619 ug/l

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034282.D

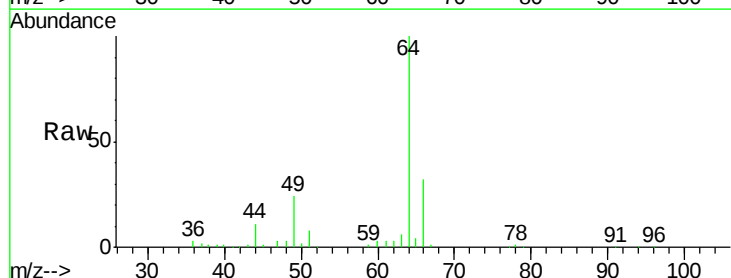
Acq: 05 Sep 2019 14:35

Tgt Ion: 64 Resp: 53424

Ion Ratio Lower Upper

64 100

66 32.0 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU034282.D (-93) (-)

Ion 65.90 (65.60 to 66.60): VU034282.D (-93) (-)

1.69

50000

40000

30000

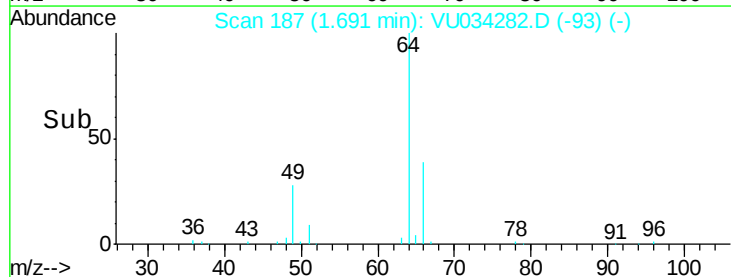
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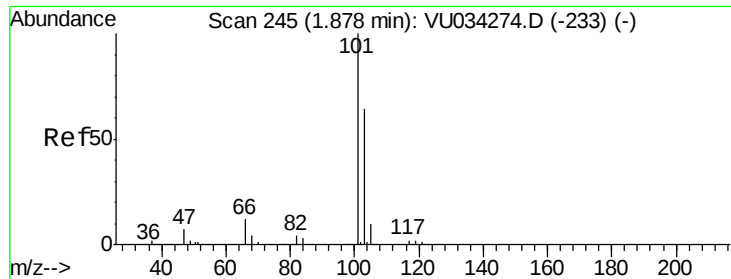
10000

0

Time-->

1.60 1.65 1.70 1.75 1.80





#7

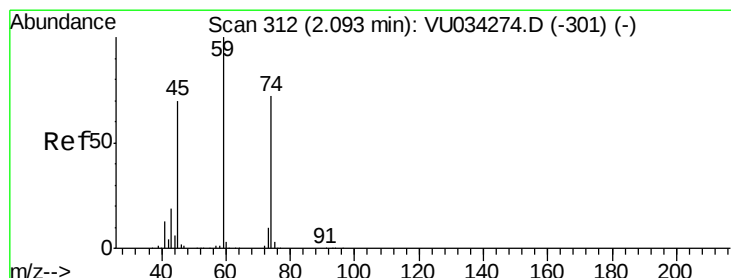
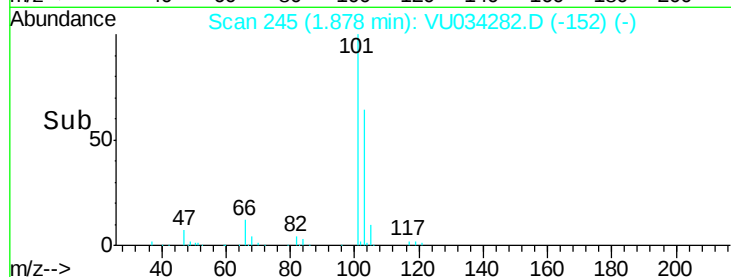
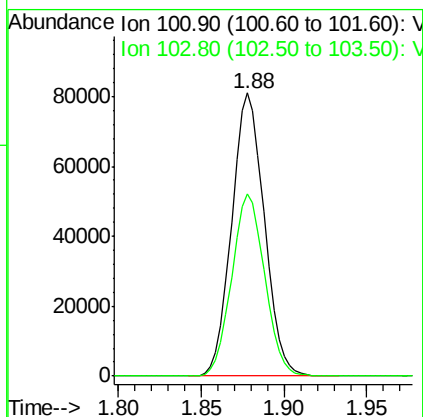
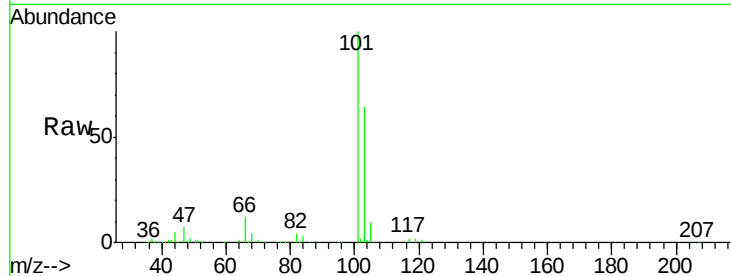
Trichlorofluoromethane
 Concen: 19.078 ug/l
 RT: 1.88 min Scan# 245
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.0	76.6

Manual Integrations
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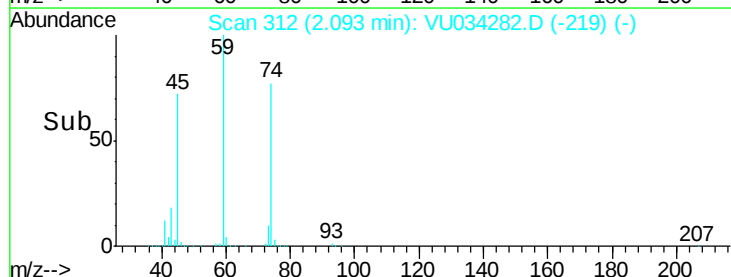
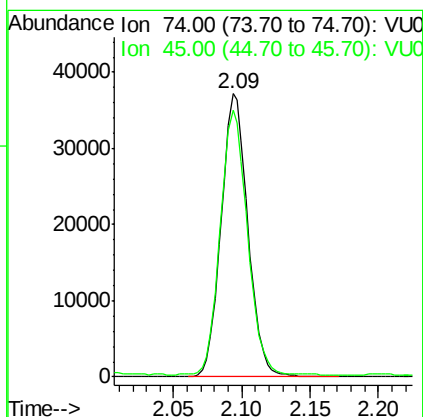
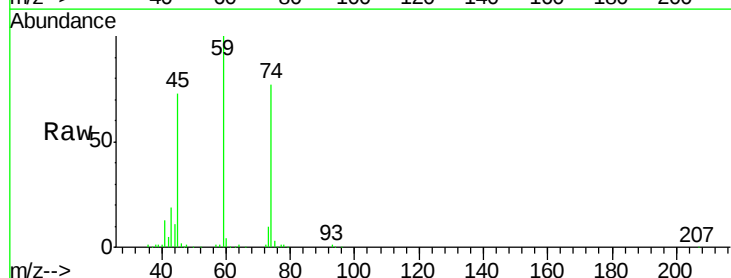
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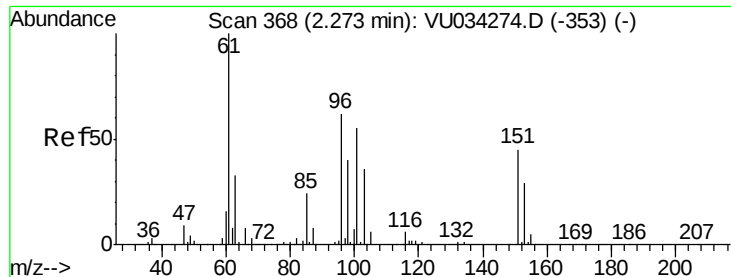


#8

Diethyl Ether
 Concen: 19.886 ug/l
 RT: 2.09 min Scan# 312
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.9	48.2	144.6





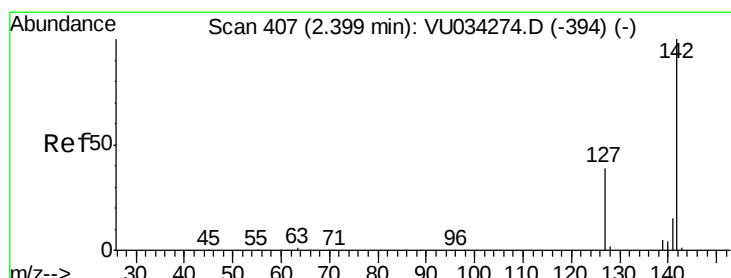
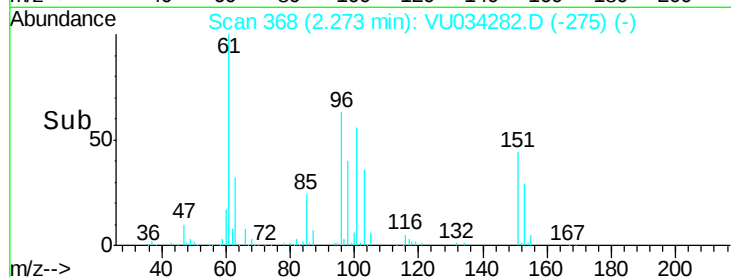
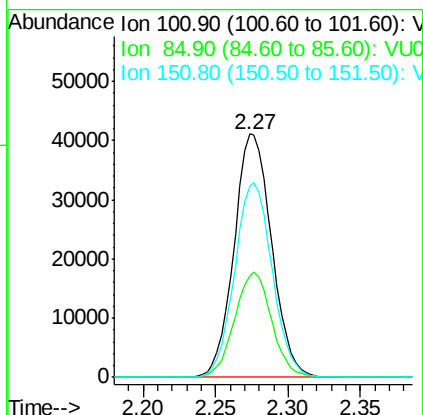
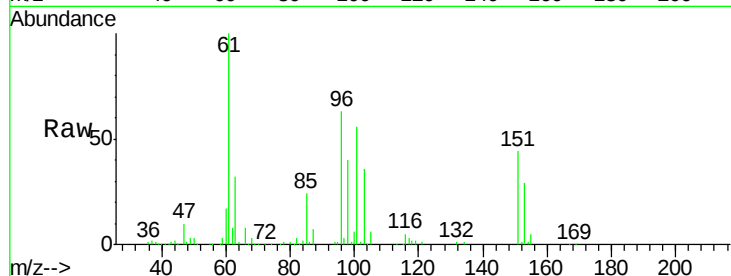
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.229 ug/l
RT: 2.27 min Scan# 368
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
85	42.5	34.4	51.6
151	79.7	64.4	96.6

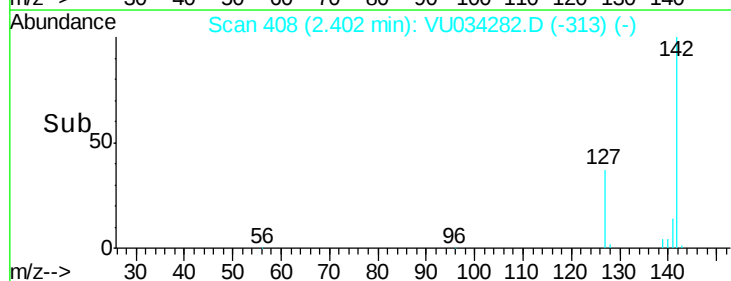
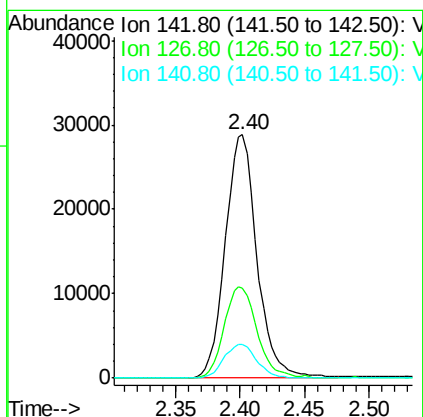
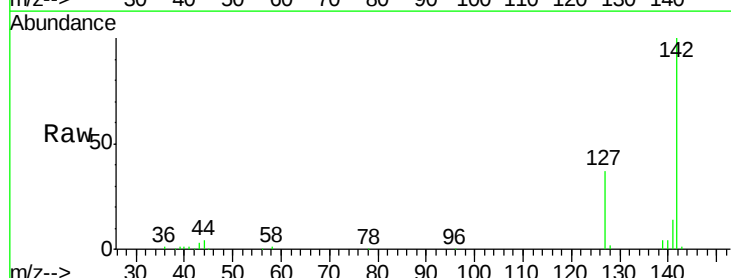
Manual Integrations
APPROVED

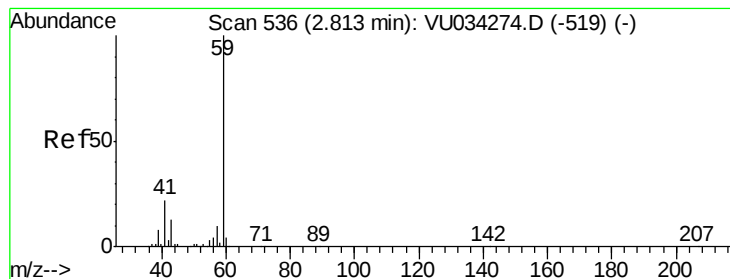
MMDadoda
9/6/2019 3:21:57 PM



#10
Methyl Iodide
Concen: 16.769 ug/l
RT: 2.40 min Scan# 408
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
142	100		
127	39.0	32.1	48.1
141	14.3	11.5	17.3





#11

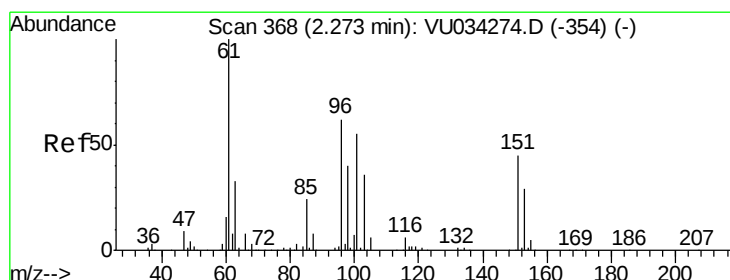
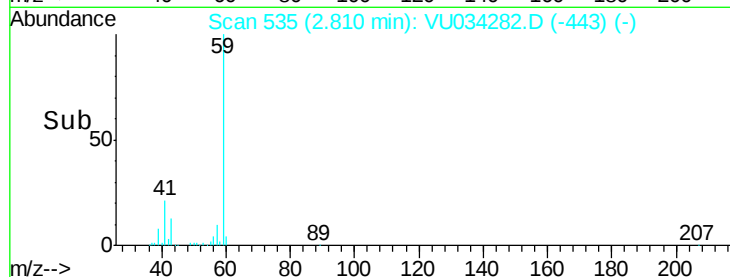
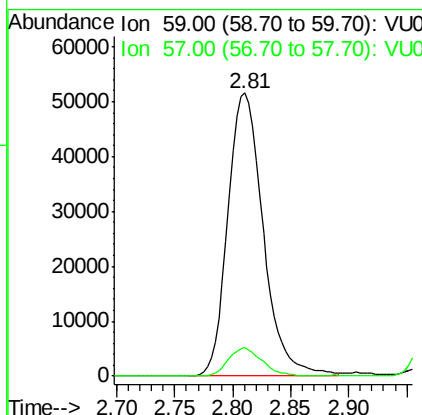
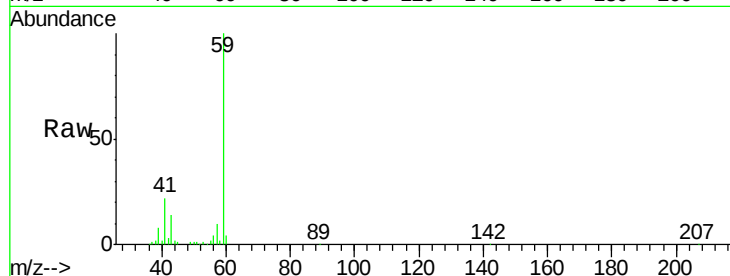
Tert butyl alcohol
 Concen: 102.701 ug/l
 RT: 2.81 min Scan# 535
 Delta R.T. -0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.6	7.9	11.9

Manual Integrations
 APPROVED

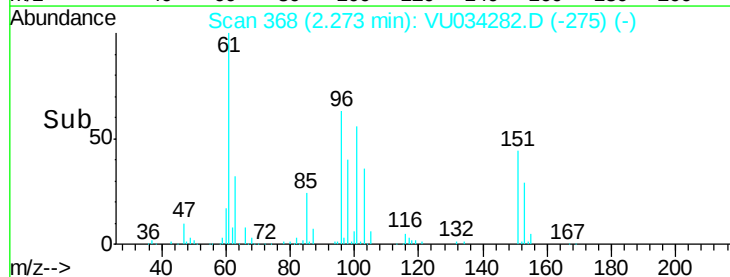
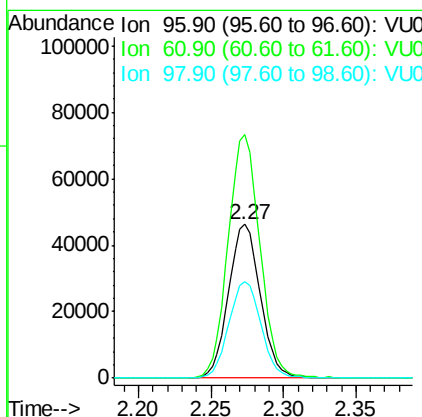
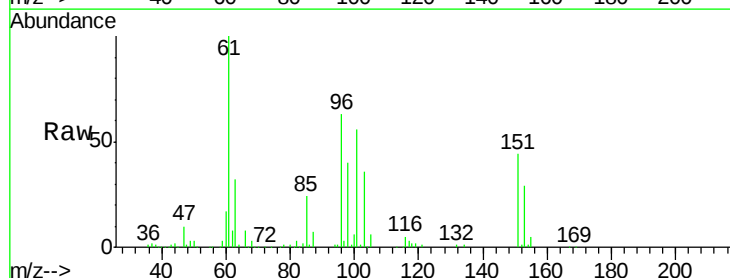
MMDadoda
 9/6/2019 3:21:57 PM

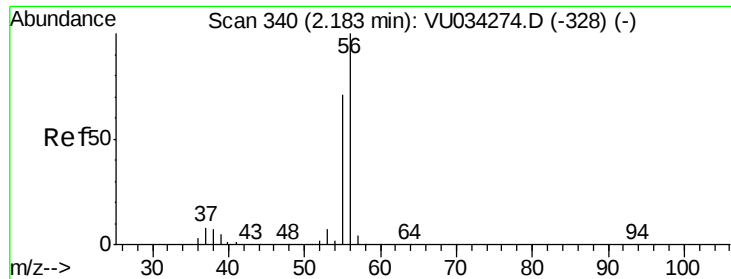


#12

1,1-Dichloroethene
 Concen: 19.371 ug/l
 RT: 2.27 min Scan# 368
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.8	130.0	195.0
98	63.0	52.2	78.4





#13

Acrolein

Concen: 82.640 ug/l

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion: 56 Resp: 73837

Ion Ratio Lower Upper

56 100

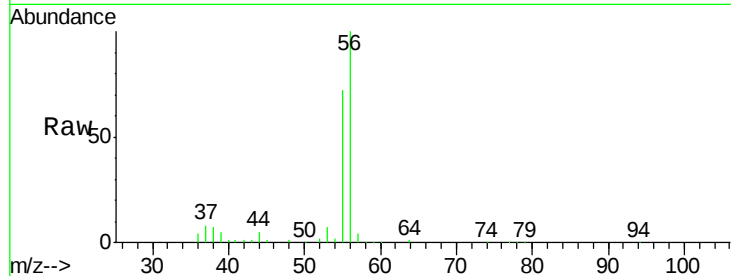
55 72.5 57.4 86.2

Manual Integrations

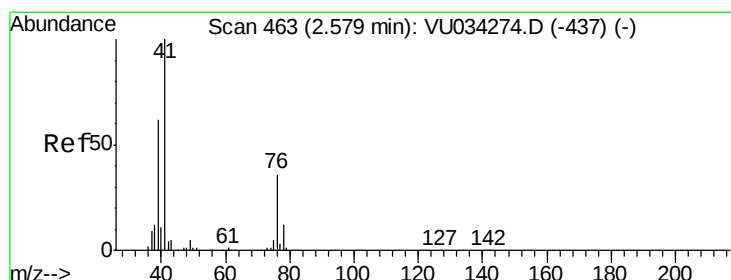
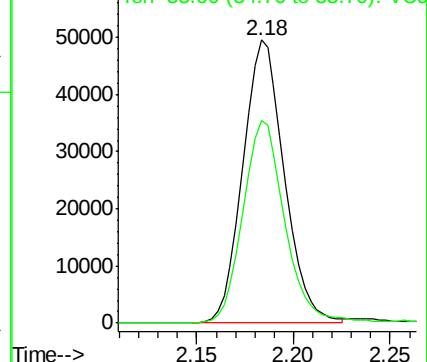
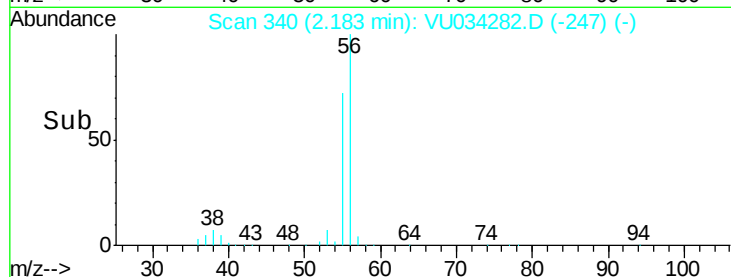
APPROVED

MMDadoda

9/6/2019 3:21:57 PM



Abundance Ion 56.00 (55.70 to 56.70): VU034282.D (-247) (-)



#14

Allyl chloride

Concen: 19.490 ug/l m

RT: 2.58 min Scan# 463

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

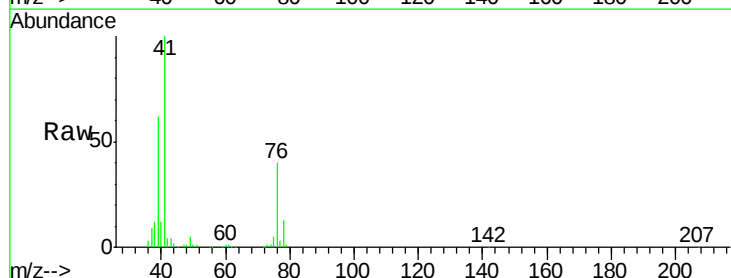
Tgt Ion: 41 Resp: 134821

Ion Ratio Lower Upper

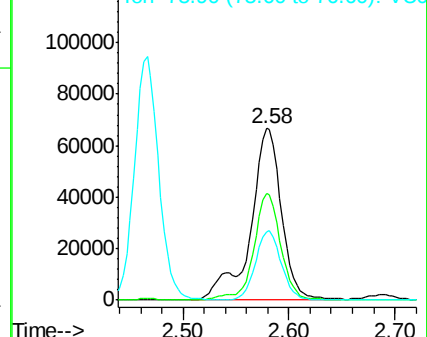
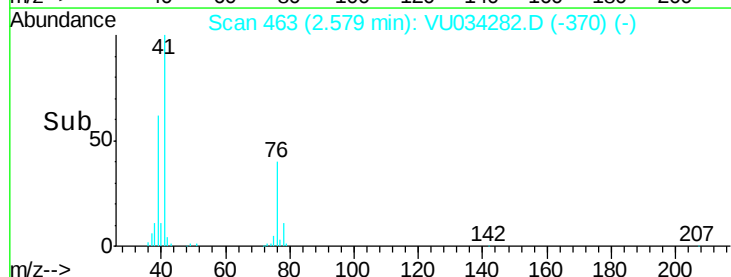
41 100

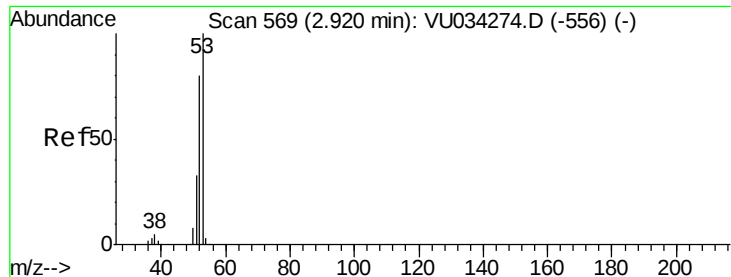
39 54.3 43.5 65.3

76 33.1 27.0 40.6



Abundance Ion 41.00 (40.70 to 41.70): VU034282.D (-370) (-)





#15

Acrylonitrile

Concen: 101.985 ug/l

RT: 2.92 min Scan# 569

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

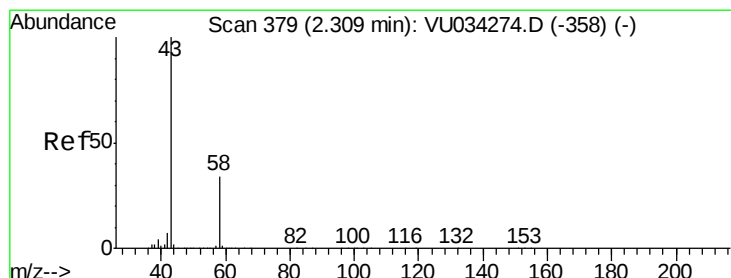
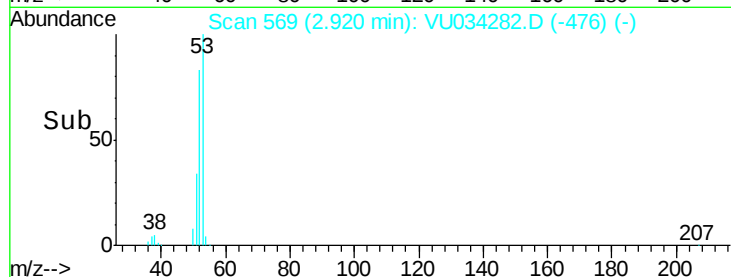
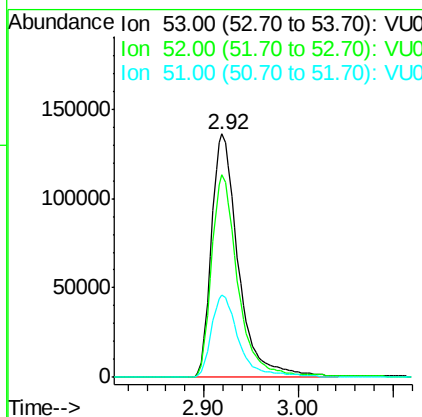
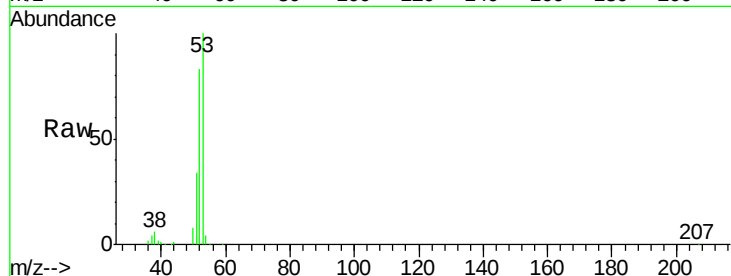
ClientSampleId :

VU0906WBSD01

Tot Ion:	53	Resp:	269979
Ion	Ratio	Lower	Upper
53	100		
52	80.5	64.1	96.1
51	34.7	27.4	41.0

Manual Integrations
APPROVED

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#16

Acetone

Concen: 89.332 ug/l

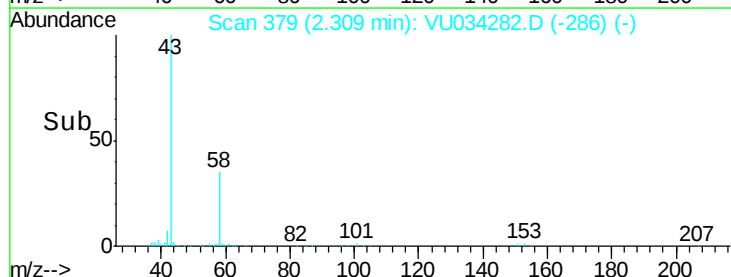
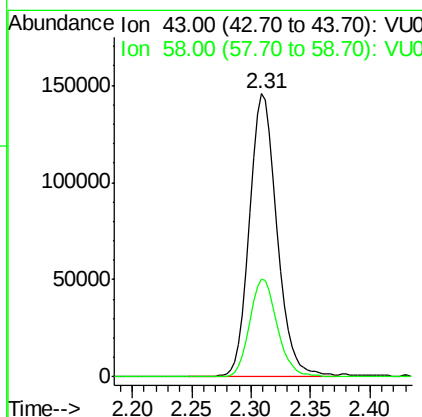
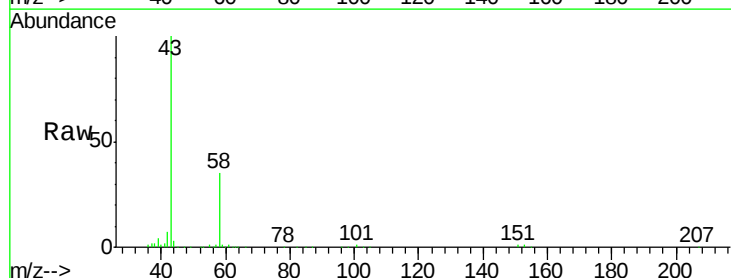
RT: 2.31 min Scan# 379

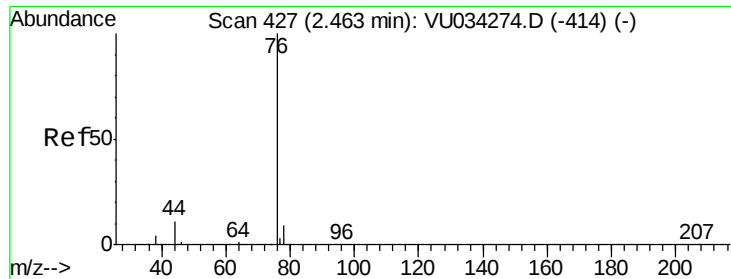
Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Tgt Ion:	43	Resp:	232616
Ion	Ratio	Lower	Upper
43	100		
58	34.8	27.6	41.4





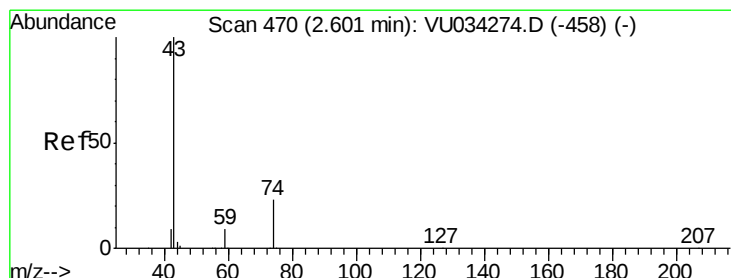
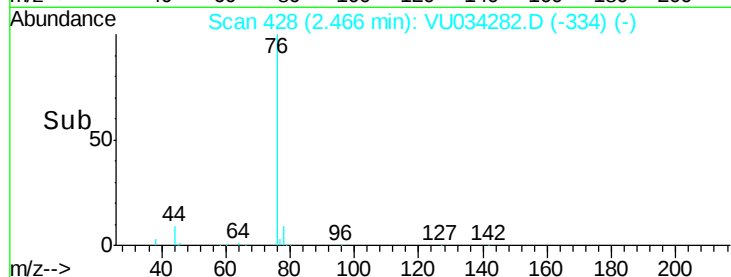
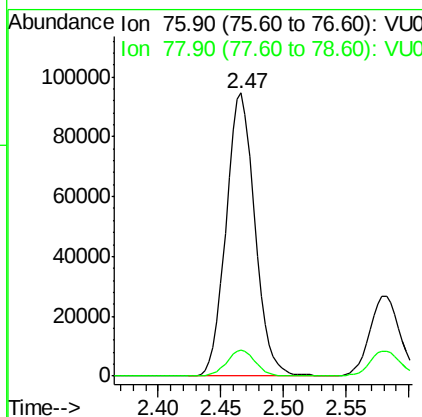
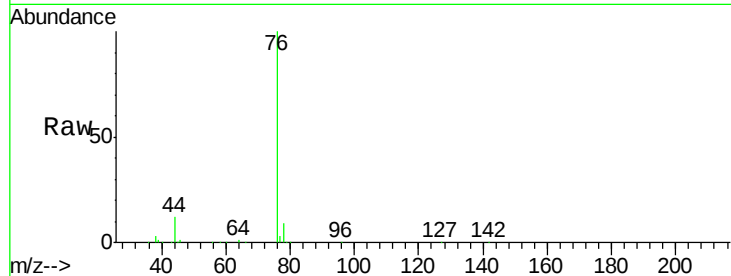
#17
Carbon Disulfide
Concen: 18.562 ug/l
RT: 2.47 min Scan# 428
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8

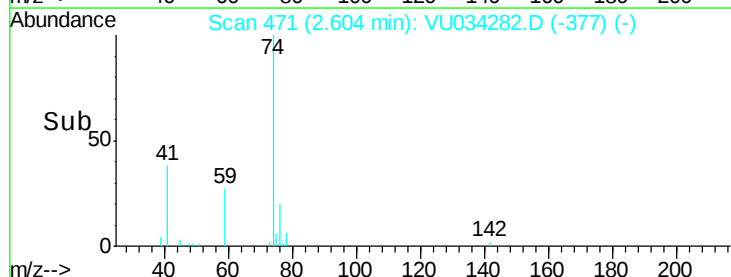
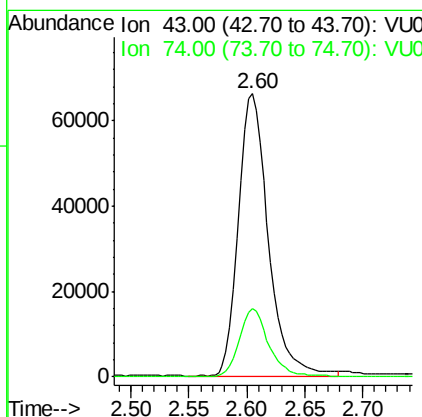
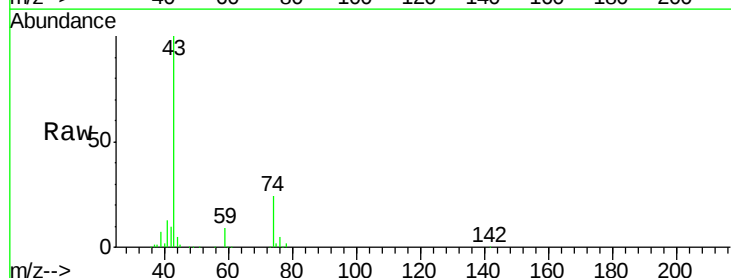
Manual Integrations
APPROVED

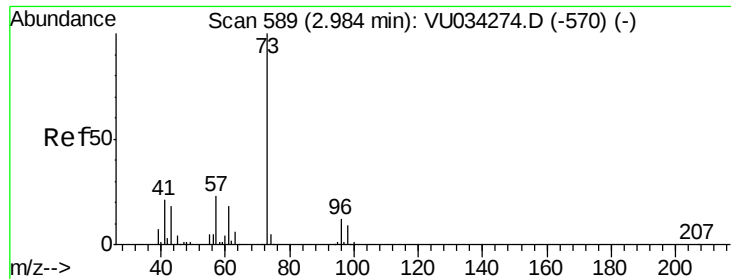
MMDadoda
9/6/2019 3:21:57 PM



#18
Methyl Acetate
Concen: 18.651 ug/l
RT: 2.60 min Scan# 471
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.4	18.9	28.3





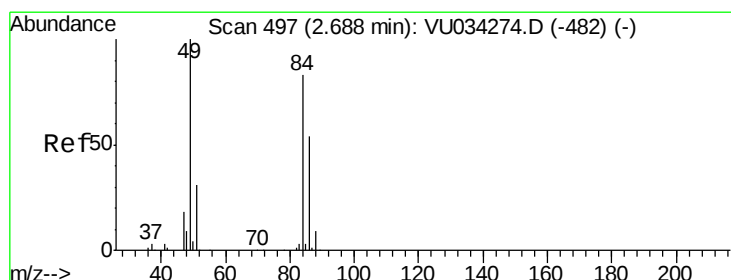
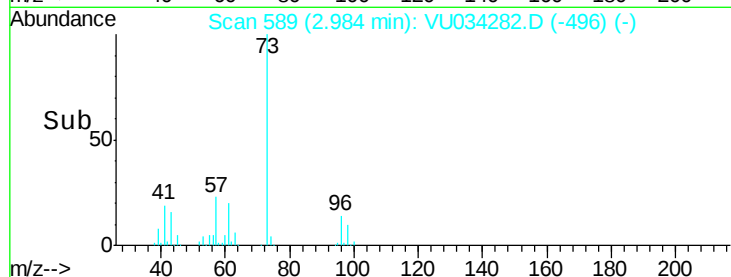
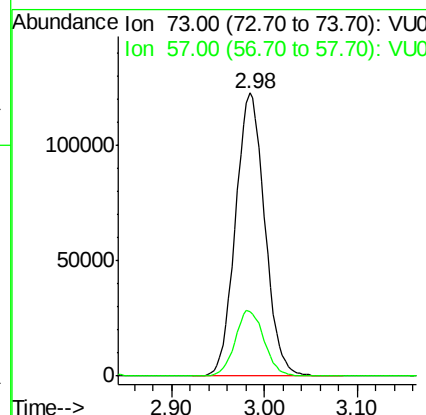
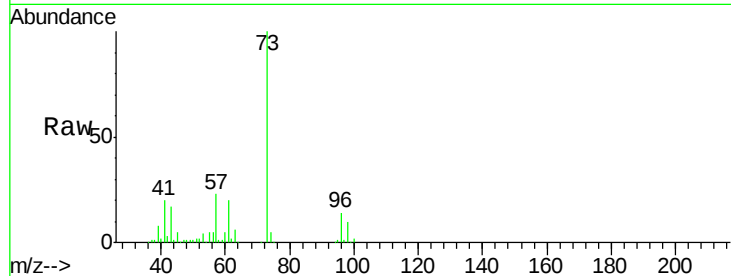
#19
Methvl tert-butvl Ether
Concen: 20.322 ug/l
RT: 2.98 min Scan# 589
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.8	18.2	27.4

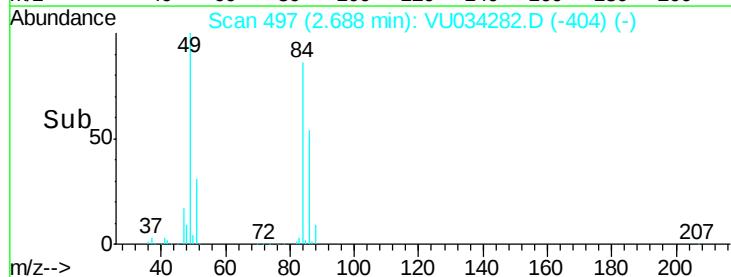
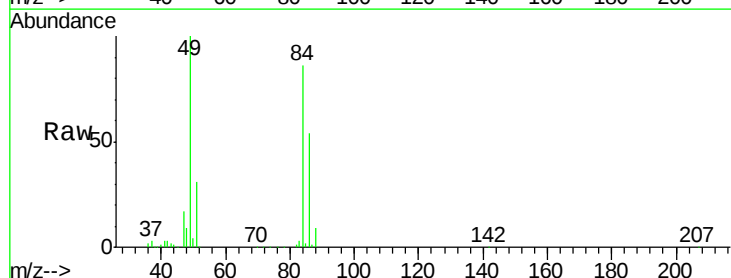
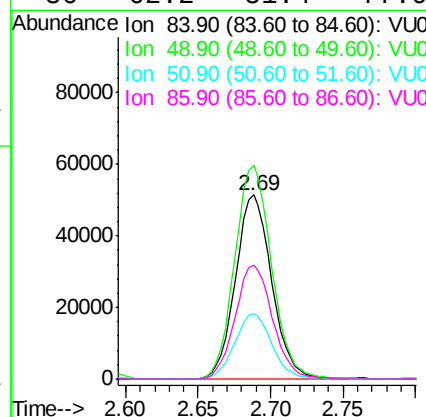
Manual Integrations
APPROVED

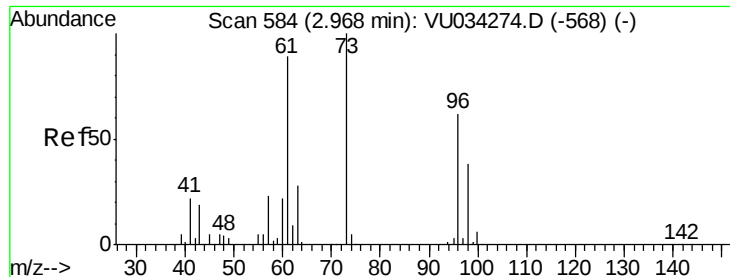
MMDadoda
9/6/2019 3:21:57 PM



#20
Methylene Chloride
Concen: 20.693 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
84	100		
49	116.1	96.0	144.0
51	35.7	30.0	45.0
86	62.2	51.4	77.0





#21

trans-1,2-Dichloroethene

Concen: 19.175 ug/l

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion: 96 Resp: 73114

Ion Ratio Lower Upper

96 100

61 142.8 114.8 172.2

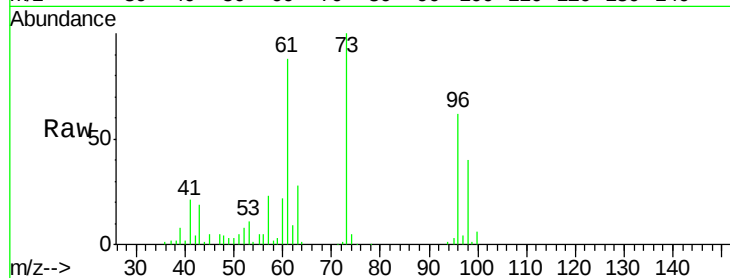
98 63.9 49.8 74.8

Manual Integrations

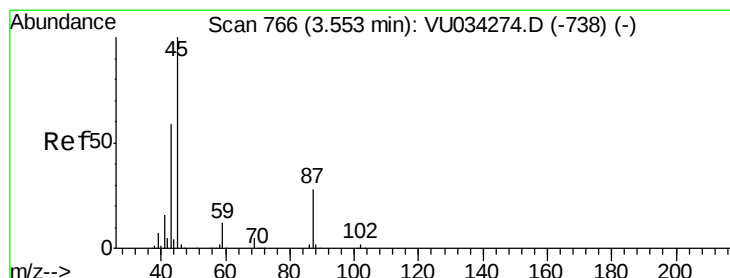
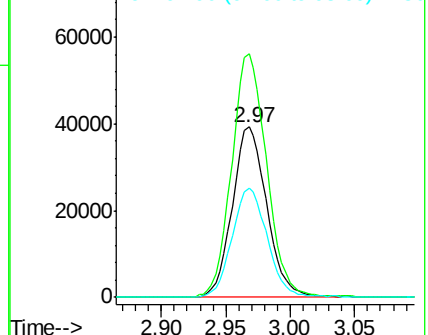
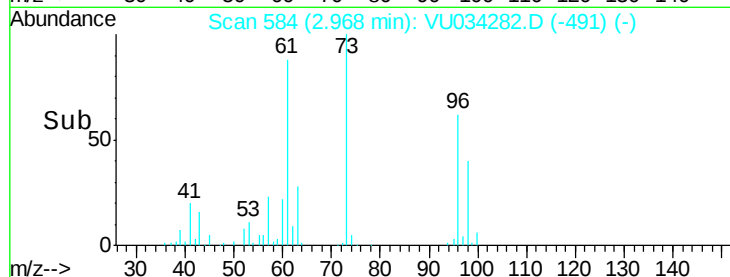
APPROVED

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Abundance Ion 95.90 (95.60 to 96.60): VU034282.D (-491) (-)



#22

Diisopropyl ether

Concen: 20.806 ug/l

RT: 3.55 min Scan# 765

Delta R.T. -0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Tgt Ion: 45 Resp: 280682

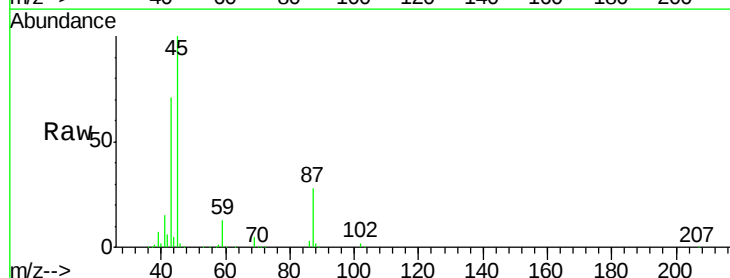
Ion Ratio Lower Upper

45 100

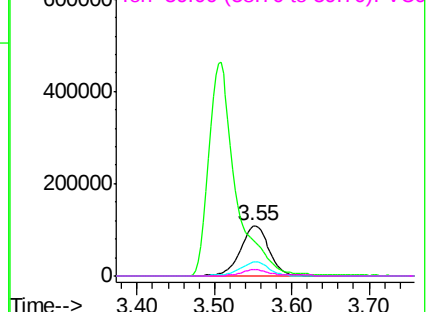
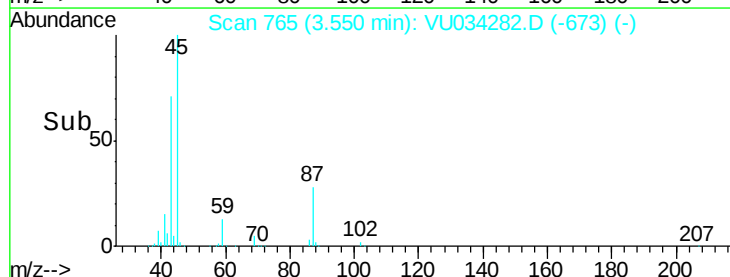
43 70.8 47.5 71.3

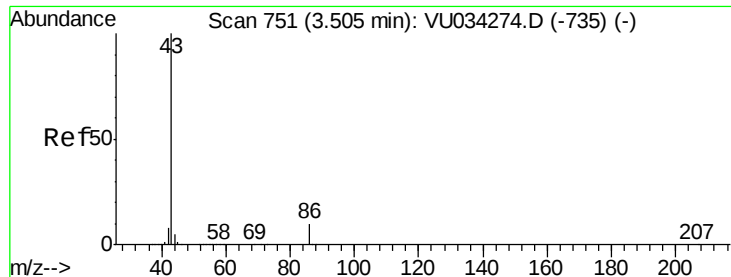
87 27.9 22.2 33.4

59 12.7 9.4 14.2



Abundance Ion 45.00 (44.70 to 45.70): VU034282.D (-673) (-)





#23

Vinyl Acetate

Concen: 103.947 ug/l

RT: 3.51 min Scan# 752

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleID :

VU0906WBSD01

Tot Ion: 43 Resp: 1142243

Ion Ratio Lower Upper

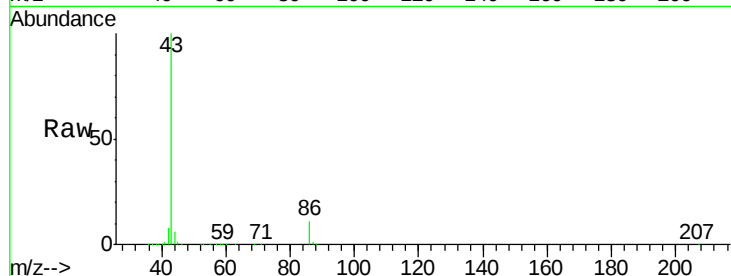
43 100

86 10.5 8.3 12.5

Manual Integrations
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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU034282.D (-658) (-)

Ion 86.00 (85.70 to 86.70): VU034282.D (-658) (-)

3.51

500000

400000

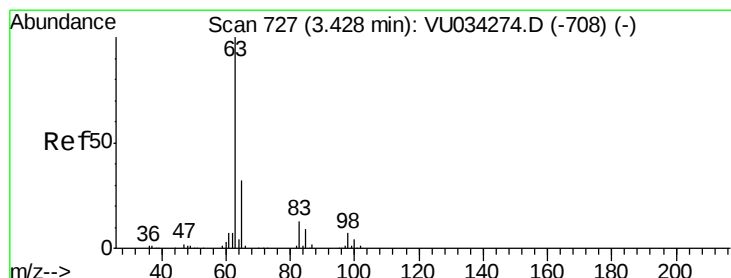
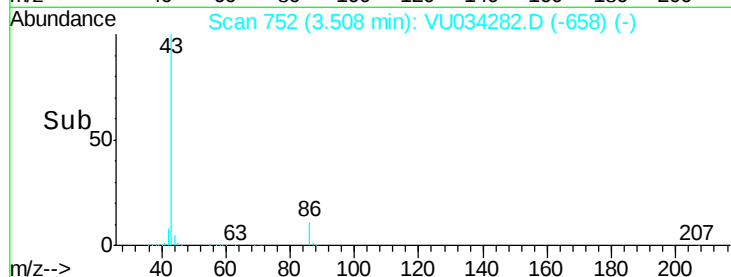
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.516 ug/l

RT: 3.43 min Scan# 727

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

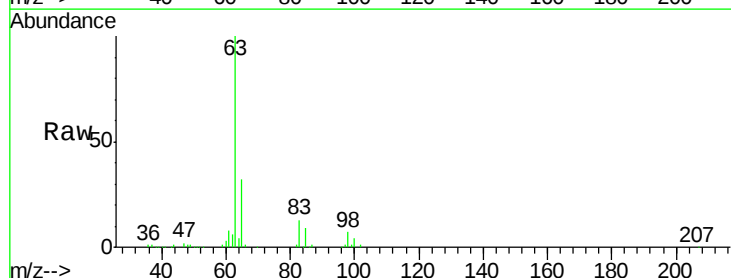
Tgt Ion: 63 Resp: 157225

Ion Ratio Lower Upper

63 100

98 6.9 3.5 10.4

100 4.1 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VU034282.D (-634) (-)

Ion 97.90 (97.60 to 98.60): VU034282.D (-634) (-)

Ion 99.90 (99.60 to 100.60): VU034282.D (-634) (-)

3.43

80000

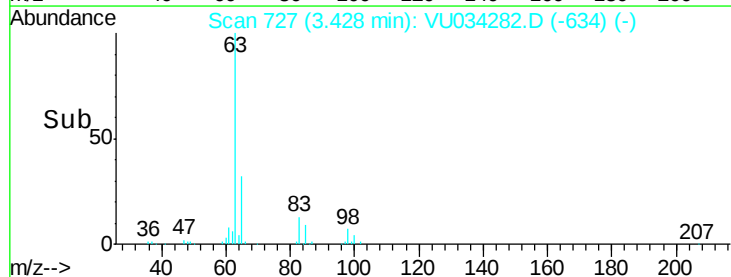
60000

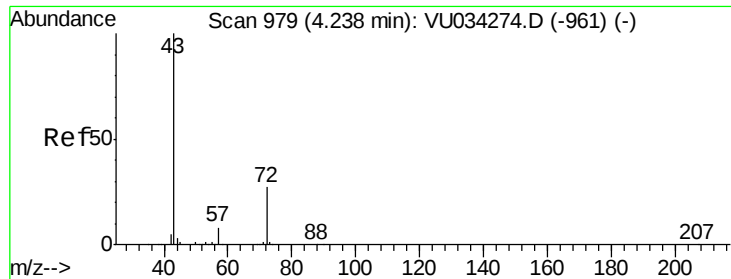
40000

20000

0

Time-->





#25

2-Butanone

Concen: 100.878 ug/l

RT: 4.24 min Scan# 980

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion: 43 Resp: 350646

Ion Ratio Lower Upper

43 100

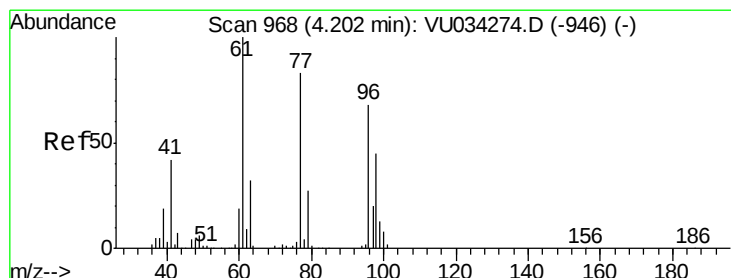
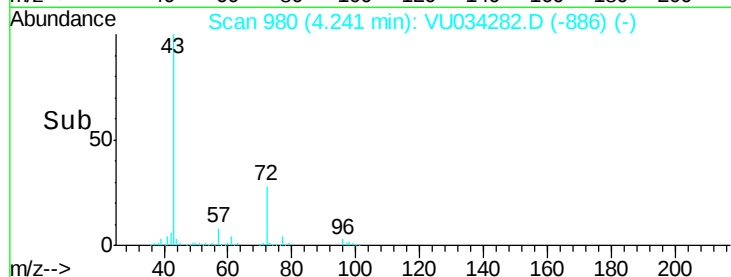
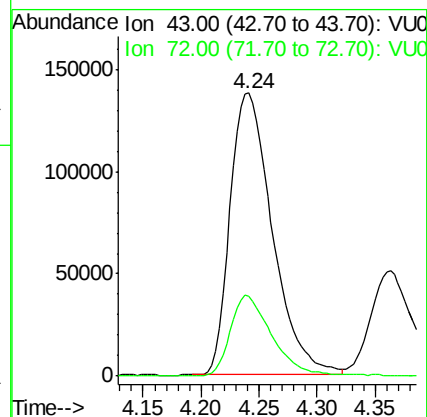
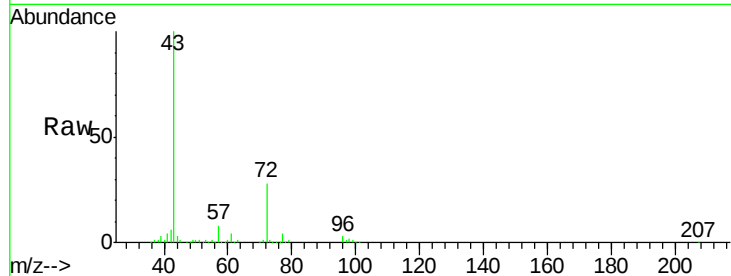
72 28.2 21.8 32.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 19.147 ug/l

RT: 4.21 min Scan# 969

Delta R.T. 0.00 min

Lab File: VU034282.D

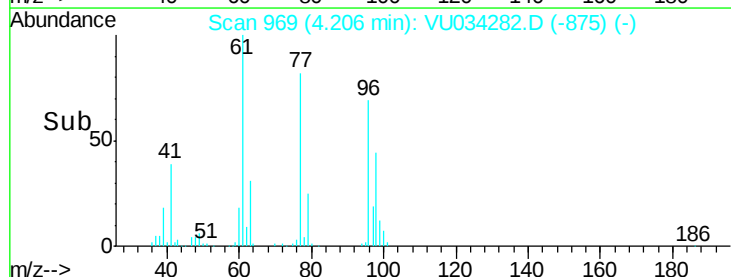
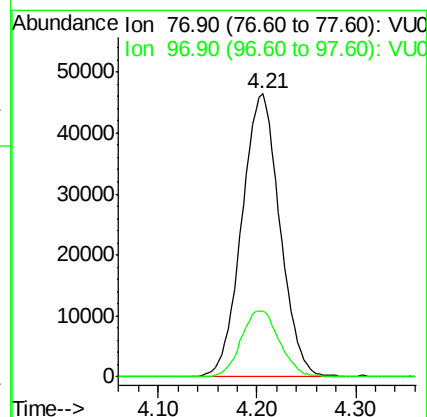
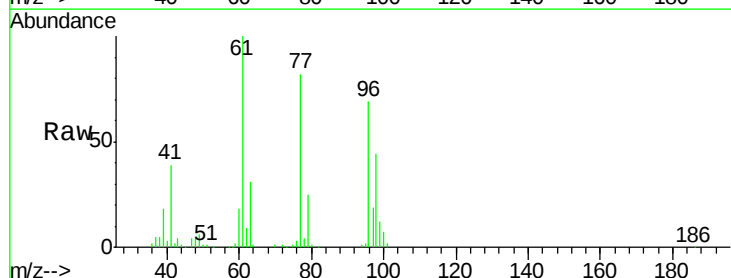
Acq: 05 Sep 2019 14:35

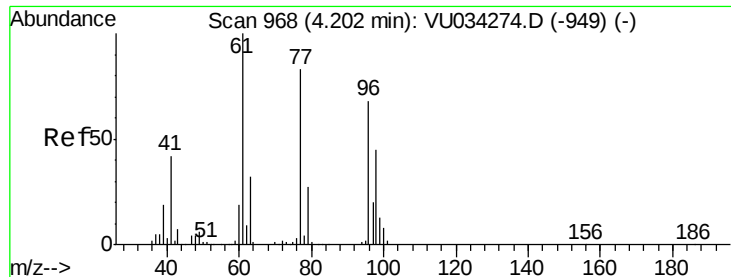
Tgt Ion: 77 Resp: 124061

Ion Ratio Lower Upper

77 100

97 23.6 11.8 35.3





#27

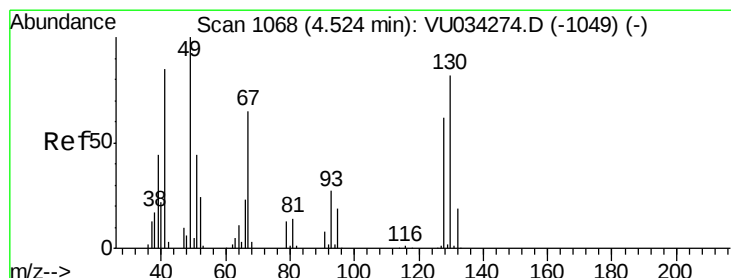
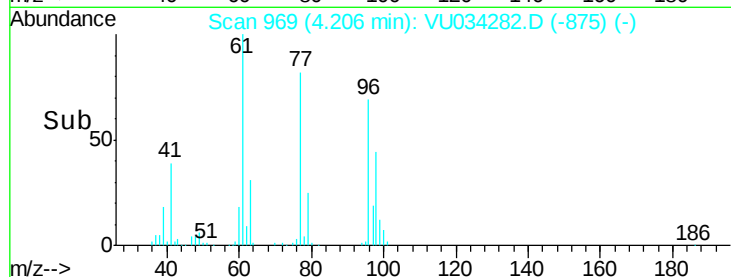
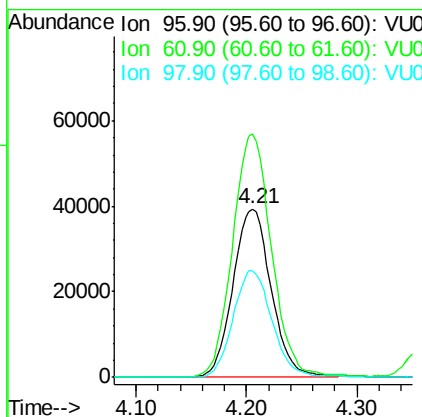
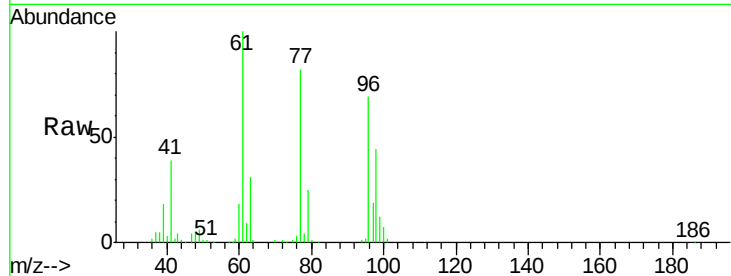
cis-1,2-Dichloroethene
 Concen: 20.410 ug/l
 RT: 4.21 min Scan# 969
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.8	0.0	297.4
98	64.5	0.0	130.0

Manual Integrations
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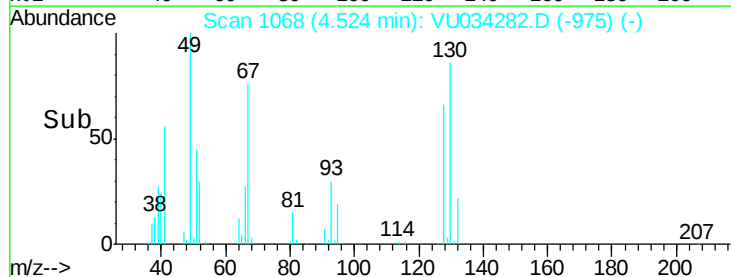
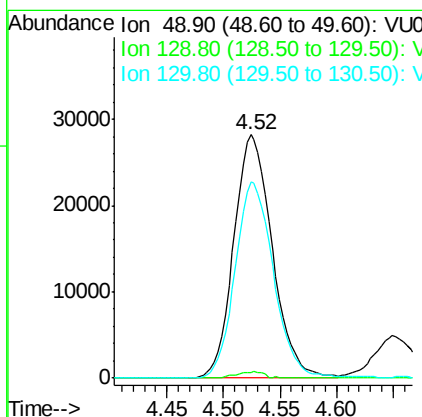
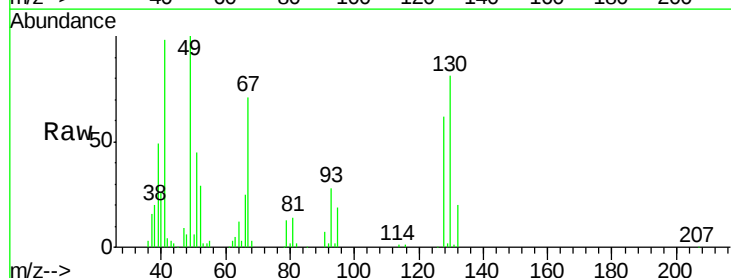
MMDadoda
 9/6/2019 3:21:57 PM

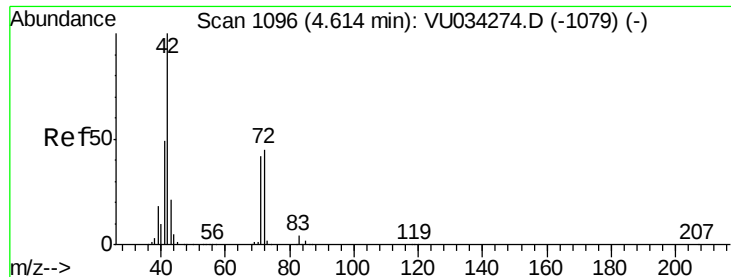


#28

Bromochloromethane
 Concen: 17.998 ug/l
 RT: 4.52 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	80.6	65.2	97.8





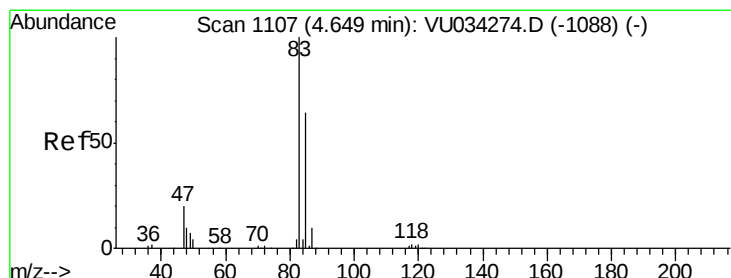
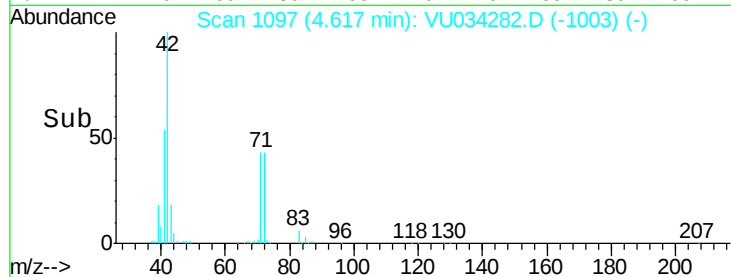
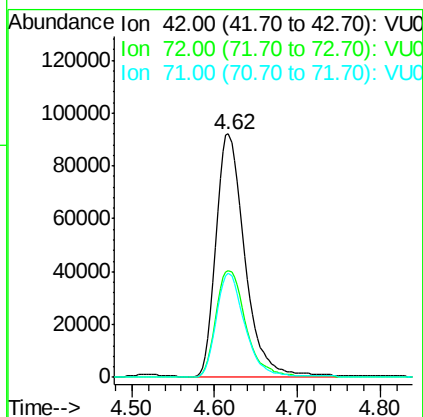
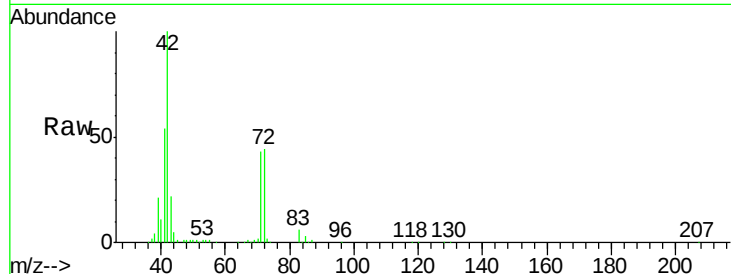
#29
Tetrahydrofuran
Concen: 105.201 ug/l
RT: 4.62 min Scan# 1097
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.0	36.6	54.8
71	42.3	34.3	51.5

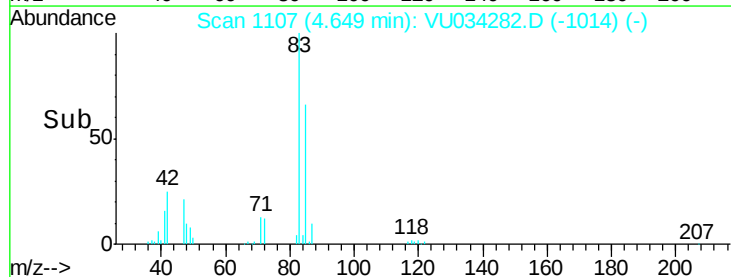
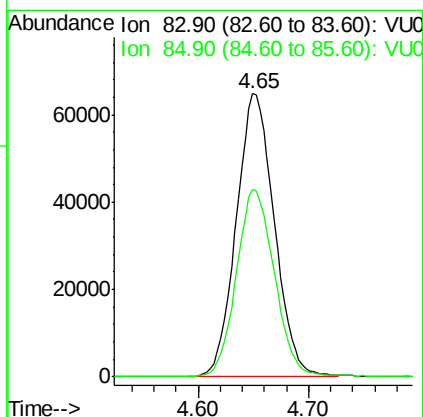
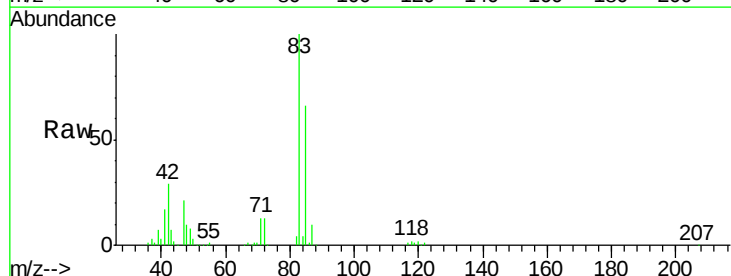
Manual Integrations
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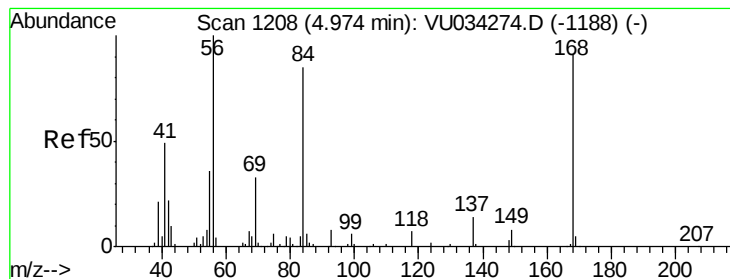
MMDadoda
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#30
Chloroform
Concen: 18.952 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.5	77.3





#31

Cyclohexane

Concen: 19.897 ug/l

RT: 4.97 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion: 56 Resp: 117268

Ion Ratio Lower Upper

56 100

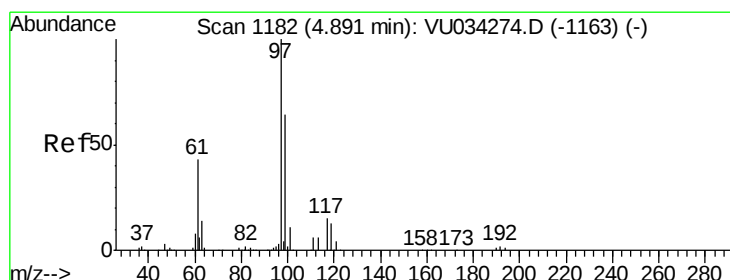
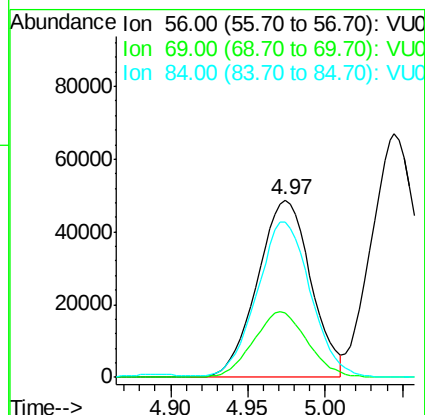
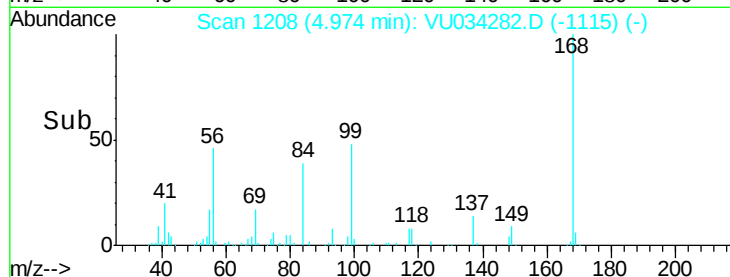
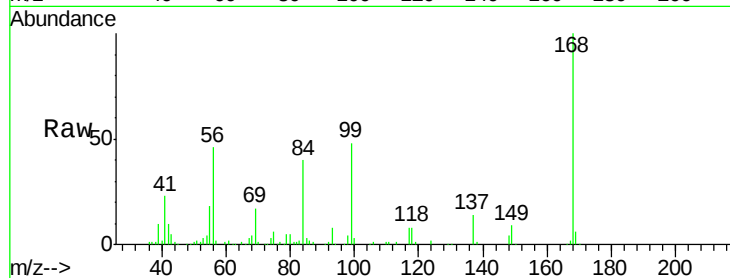
69 36.2 26.7 40.1

84 86.6 68.2 102.4

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 19.415 ug/l

RT: 4.89 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

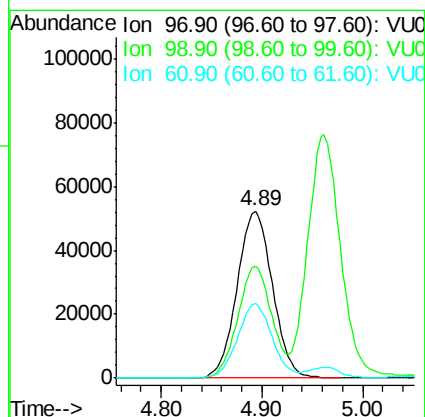
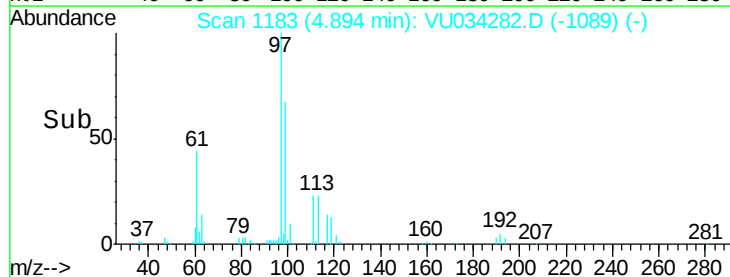
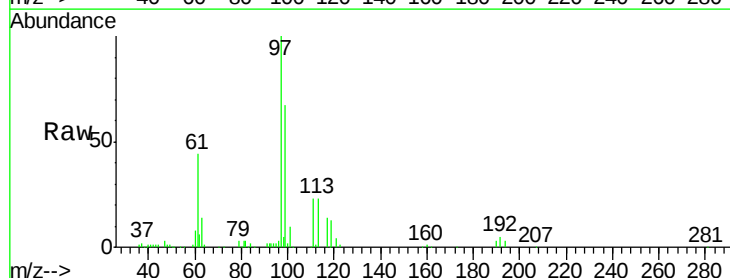
Tgt Ion: 97 Resp: 127117

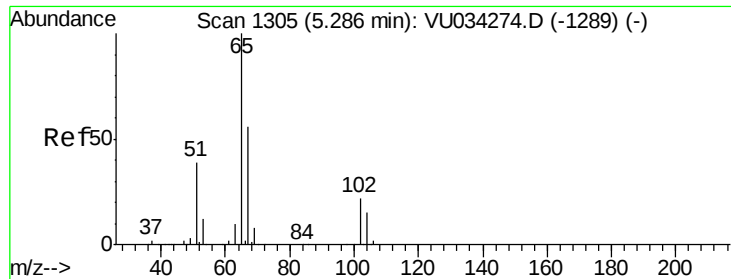
Ion Ratio Lower Upper

97 100

99 64.6 50.9 76.3

61 43.7 34.7 52.1





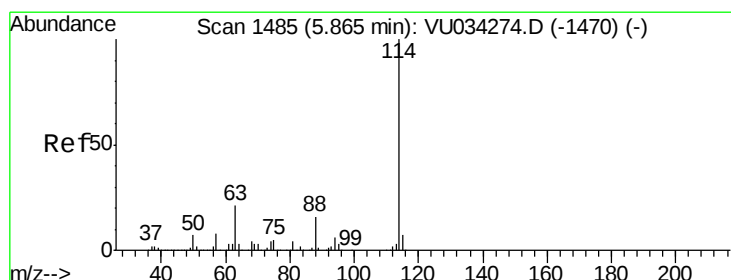
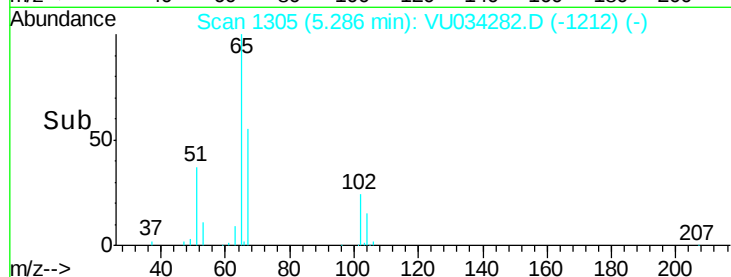
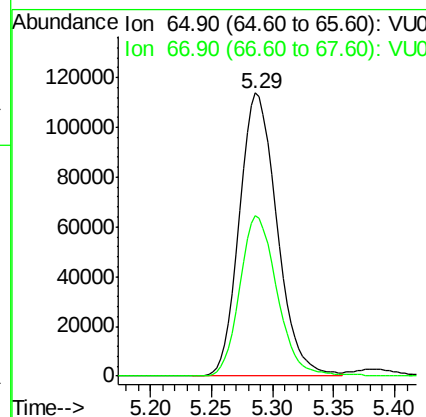
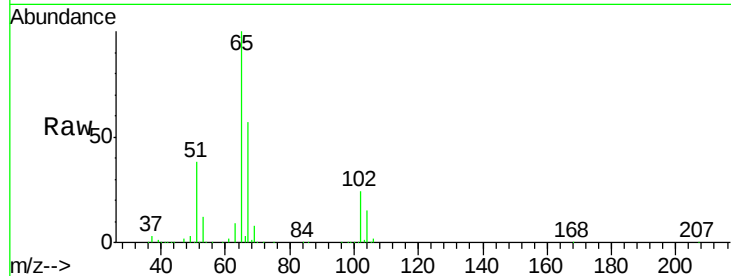
#33
 1,2-Dichloroethane-d4
 Concen: 48.408 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	243580		
67	56.4	0.0	112.4	

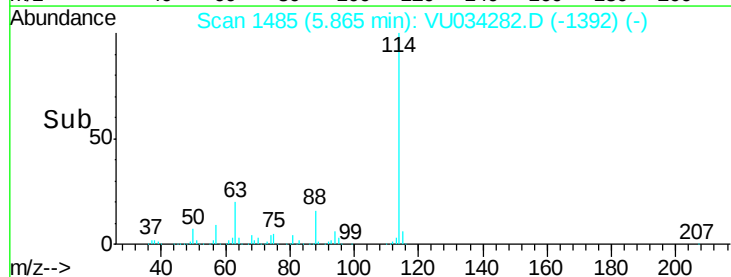
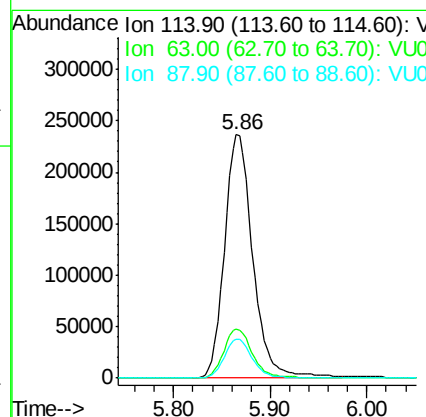
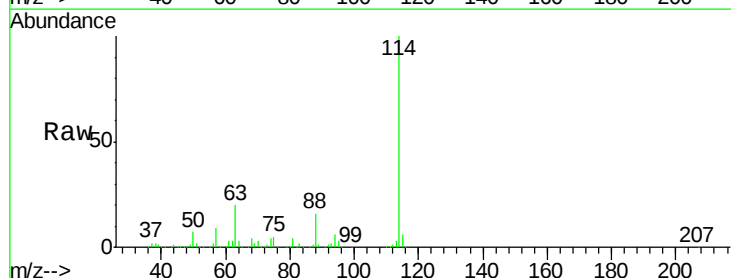
Manual Integrations
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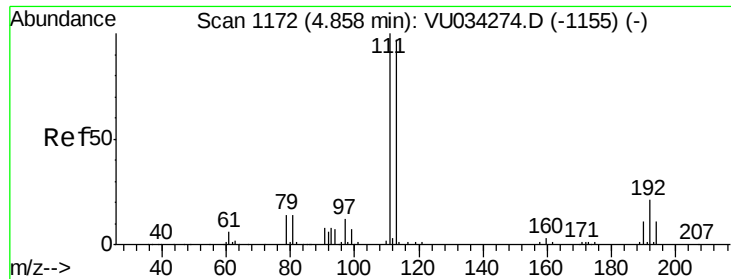
MMDadoda
 9/6/2019 3:21:57 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	480662		
63	20.2	0.0	42.4	
88	16.0	0.0	32.4	





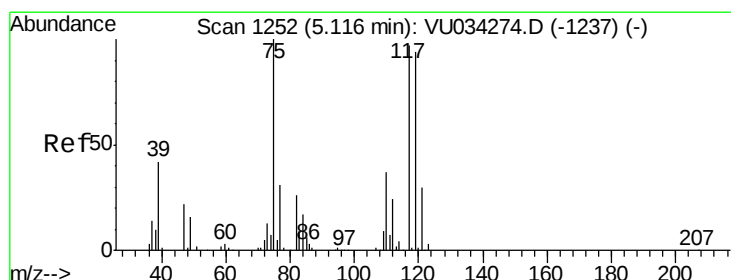
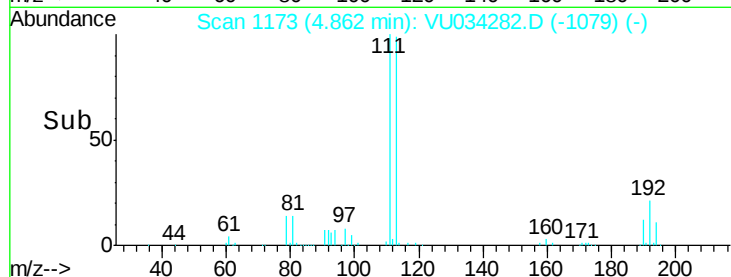
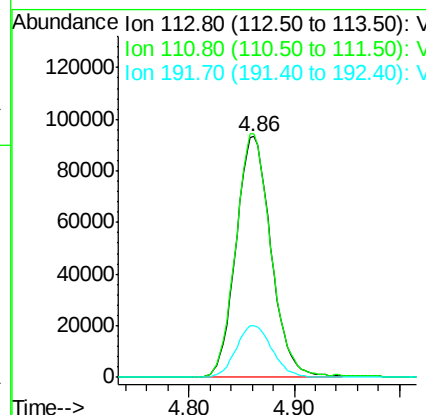
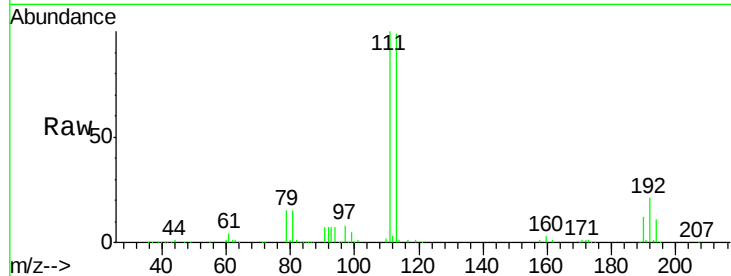
#35
 Dibromofluoromethane
 Concen: 48.149 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	215349		
111	100.8	81.5	122.3	
192	22.0	17.8	26.8	

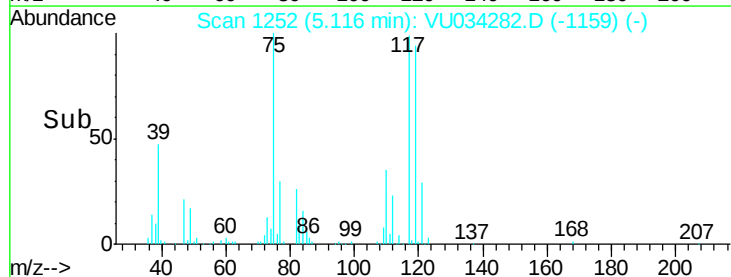
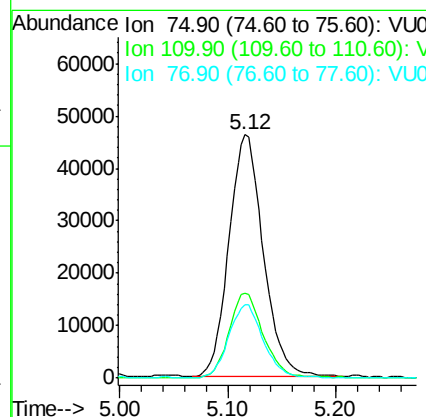
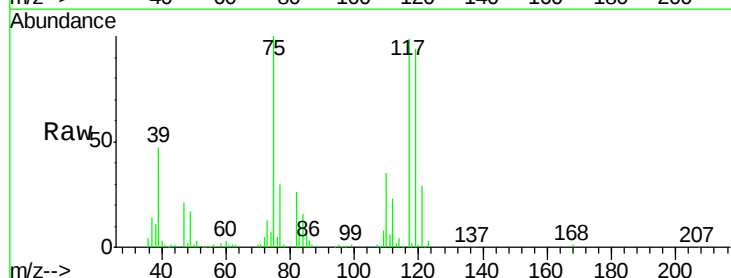
Manual Integrations
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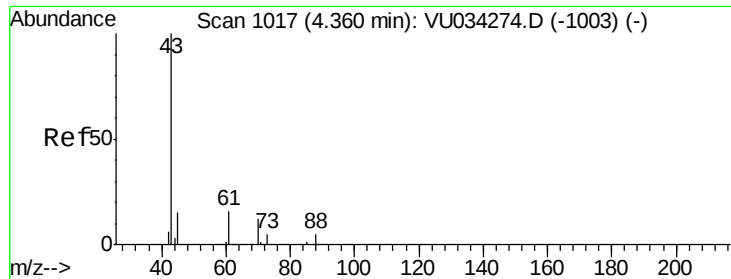
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 9/6/2019 3:21:57 PM



#36
 1,1-Dichloropropene
 Concen: 19.685 ug/l
 RT: 5.12 min Scan# 1252
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	102617		
110	35.2	18.3	54.9	
77	30.8	24.9	37.3	





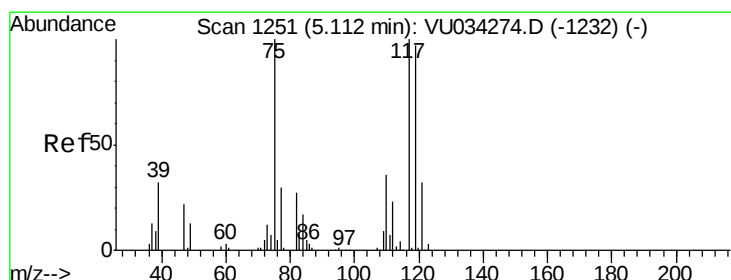
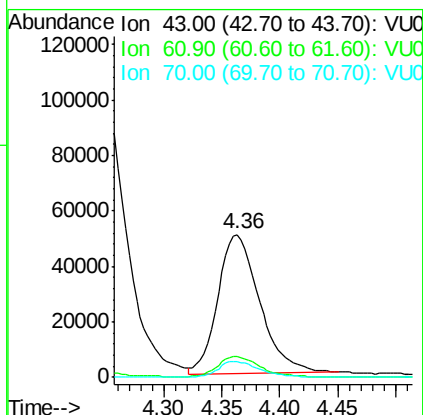
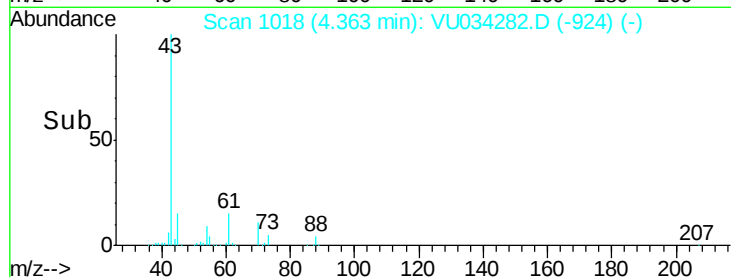
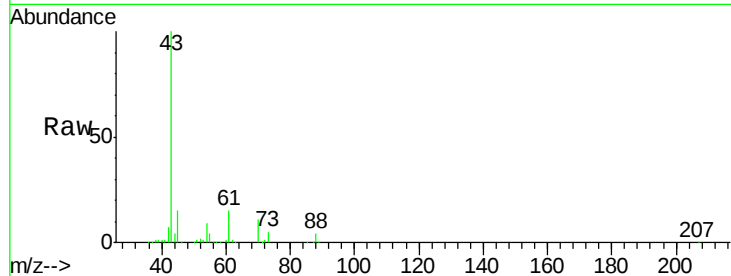
#37
Ethyl Acetate
Concen: 20.271 ug/l
RT: 4.36 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.5	12.3	18.5
70	11.4	9.1	13.7

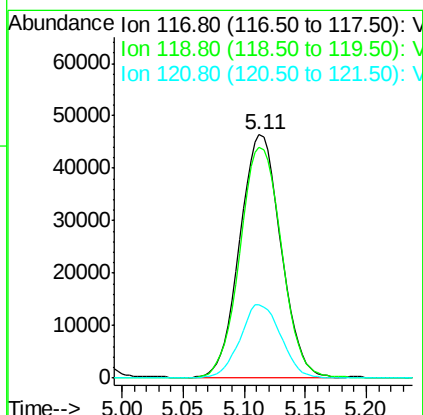
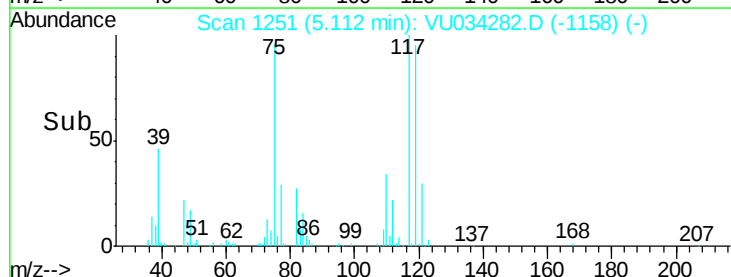
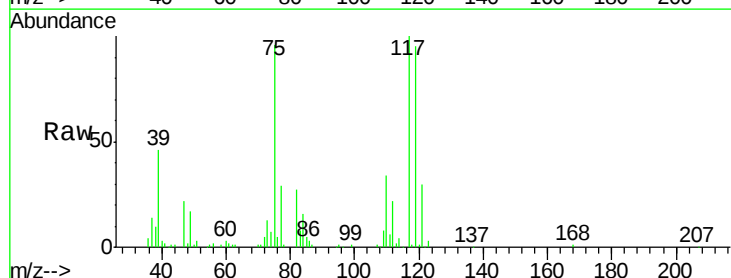
Manual Integrations
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#38
Carbon Tetrachloride
Concen: 19.278 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.3	77.8	116.6
121	30.1	25.2	37.8





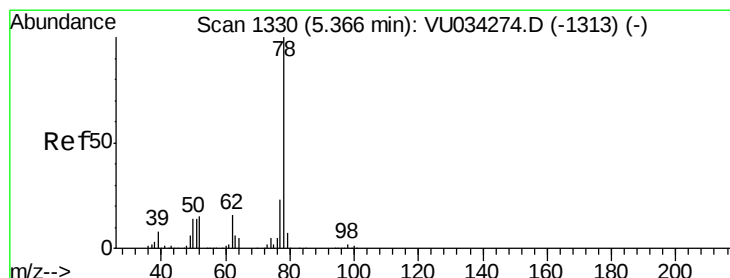
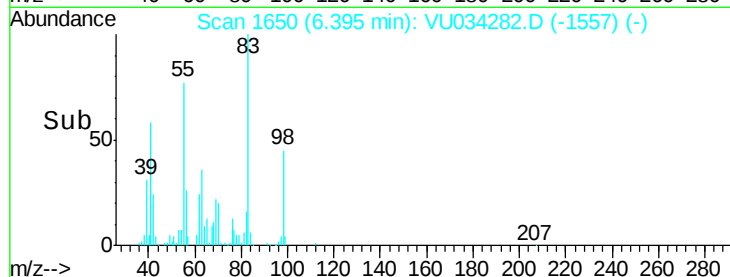
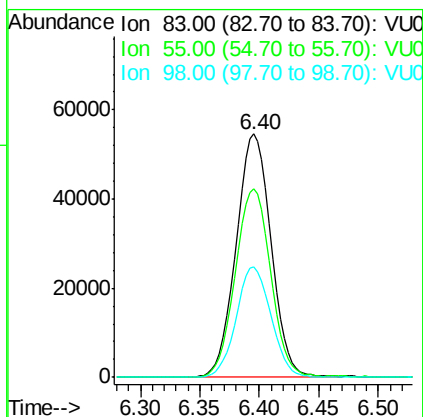
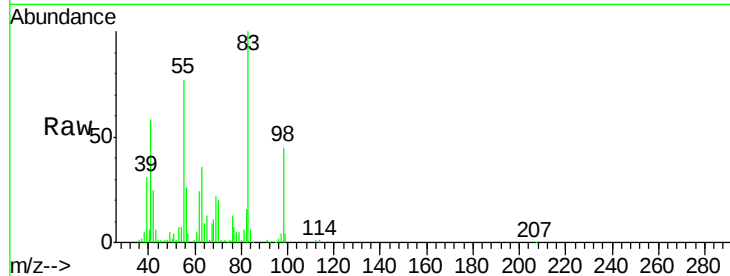
#39
Methvlcvclohexane
Concen: 20.005 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.3	62.1	93.1
98	45.3	37.0	55.6

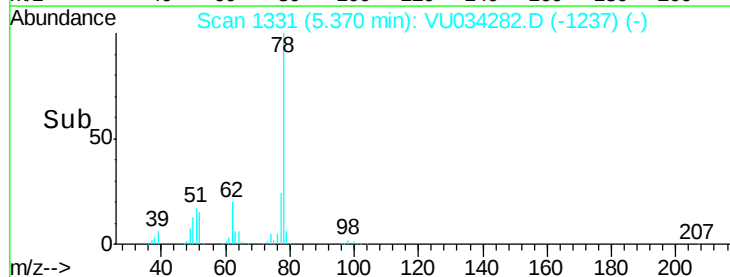
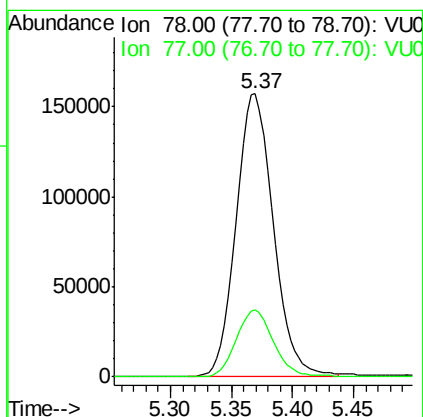
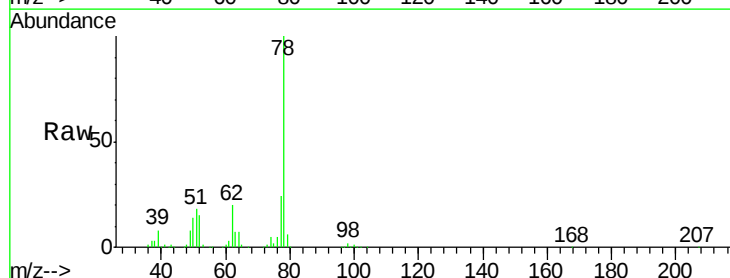
Manual Integrations
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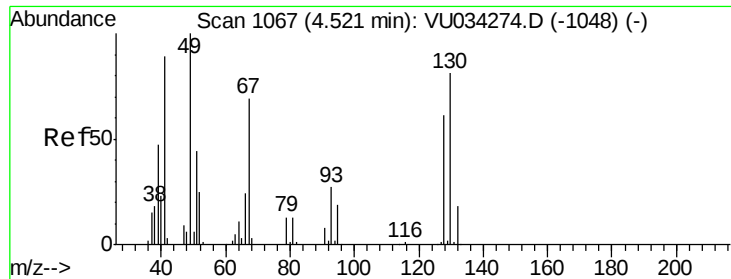
MMDadoda
9/6/2019 3:21:57 PM



#40
Benzene
Concen: 19.826 ug/l
RT: 5.37 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.7	28.1





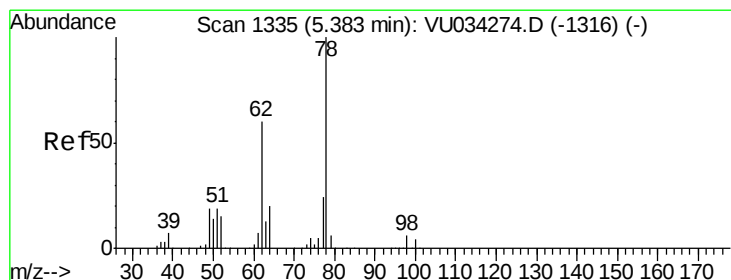
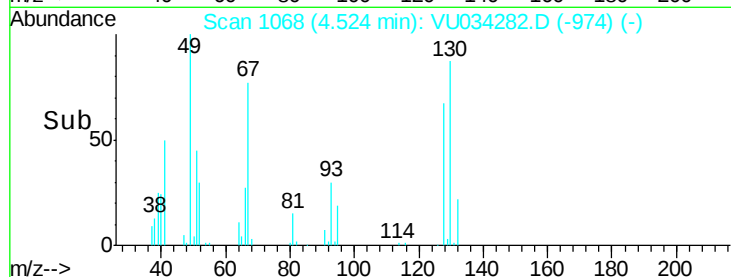
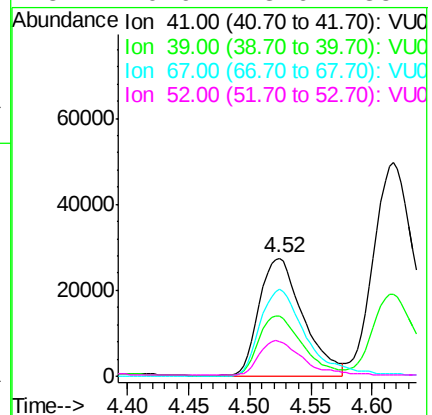
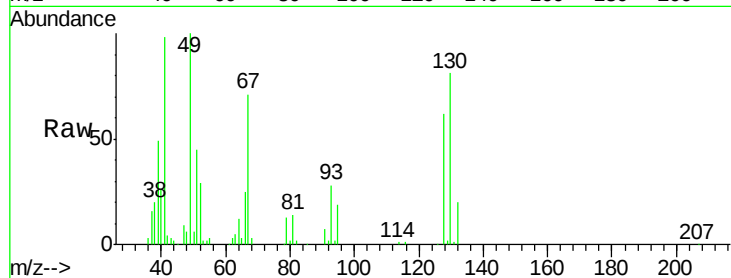
#41
Methacrylonitrile
Concen: 20.986 ug/l
RT: 4.52 min Scan# 1068
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	51.9	41.0	61.4
67	76.4	62.4	93.6
52	29.9	23.6	35.4

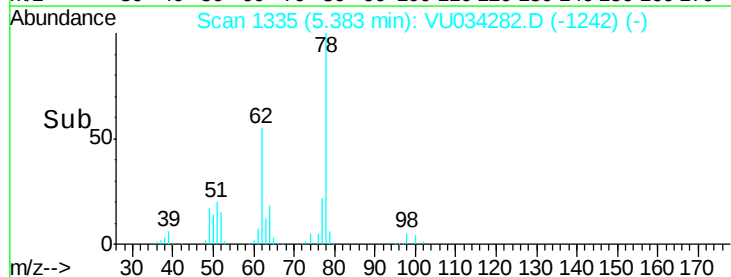
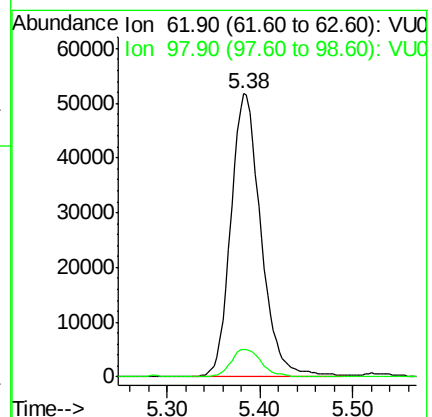
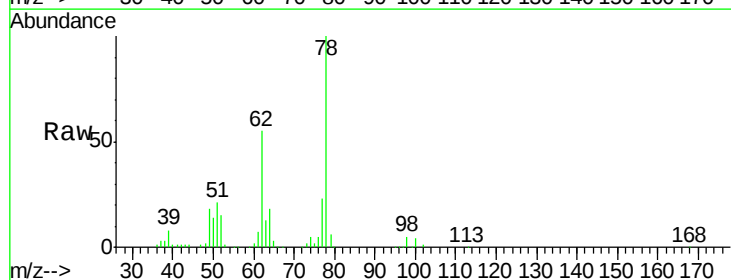
Manual Integrations
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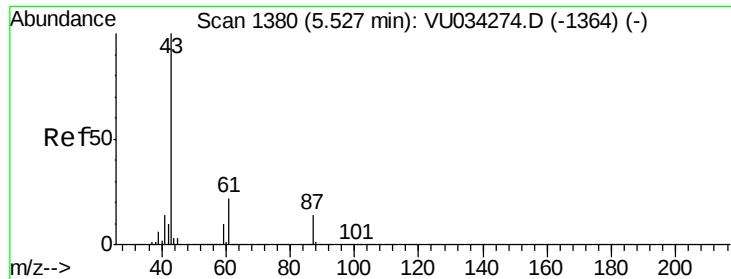
MMDadoda
9/6/2019 3:21:57 PM



#42
1,2-Dichloroethane
Concen: 19.979 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	20.0





#43

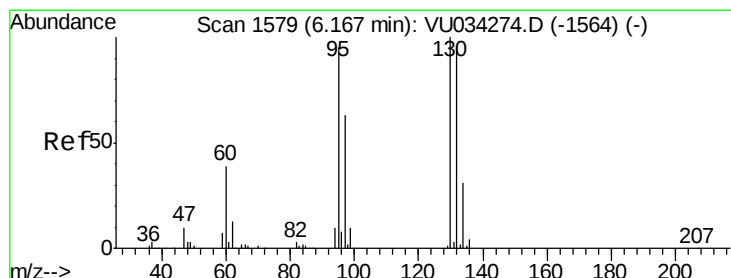
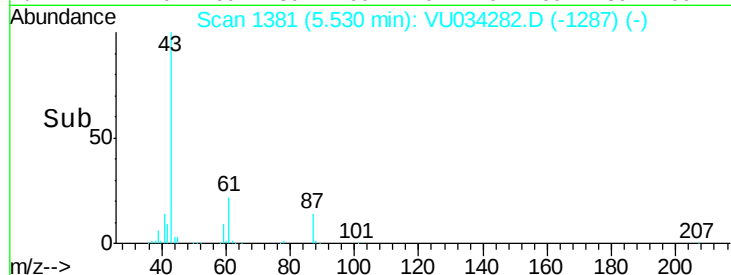
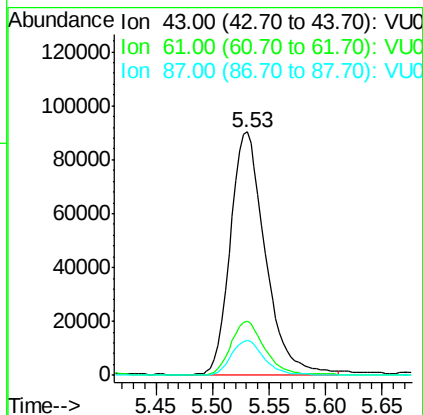
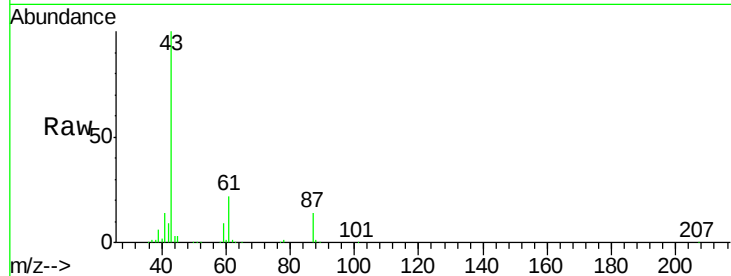
Isopropyl Acetate
 Concen: 20.009 ug/l
 RT: 5.53 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.6	17.1	25.7
87	13.9	11.1	16.7

Manual Integrations
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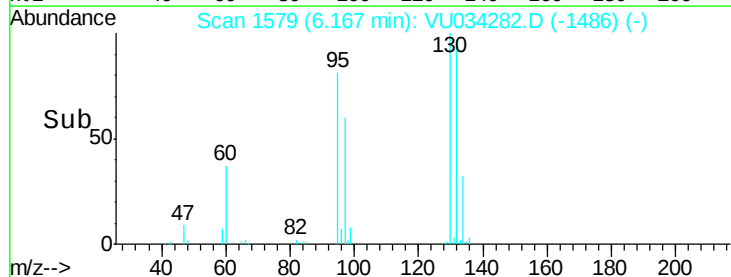
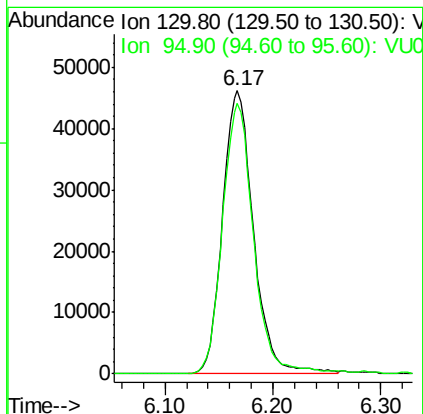
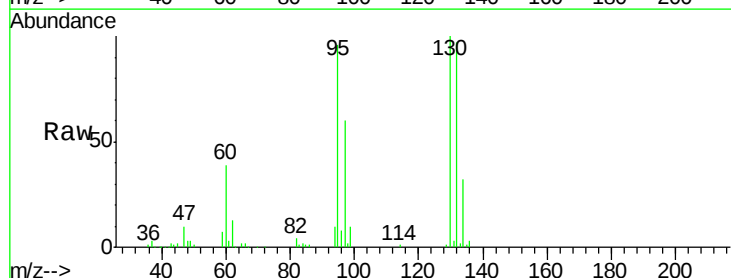
MMDadoda
 9/6/2019 3:21:57 PM

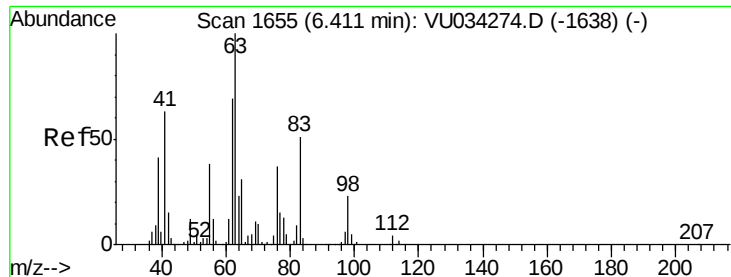


#44

Trichloroethene
 Concen: 19.821 ug/l
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.7	0.0	189.2





#45

1,2-Dichloropropane

Concen: 20.059 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion: 63 Resp: 98639

Ion Ratio Lower Upper

63 100

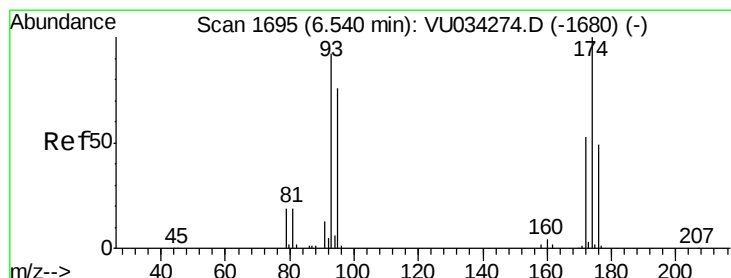
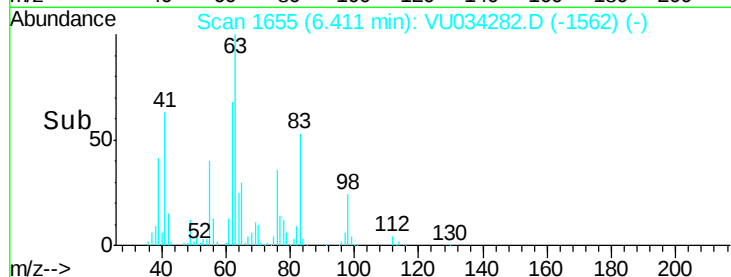
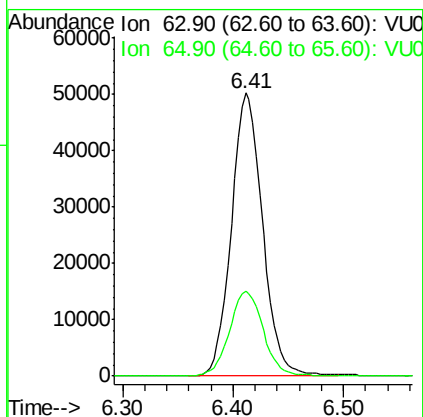
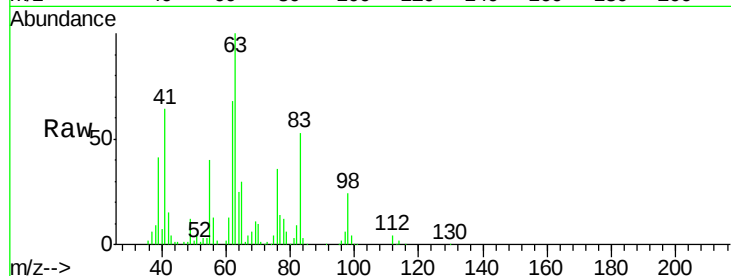
65 29.9 24.6 37.0

Manual Integrations

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#46

Dibromomethane

Concen: 19.693 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

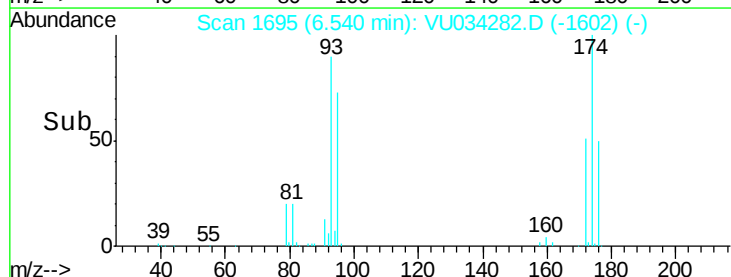
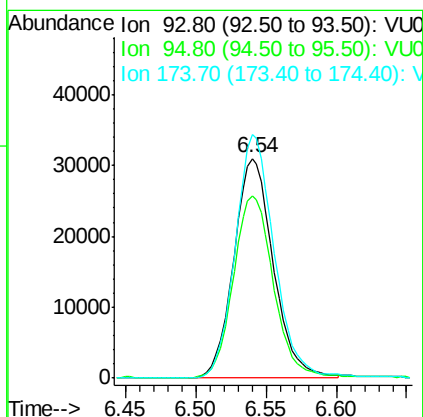
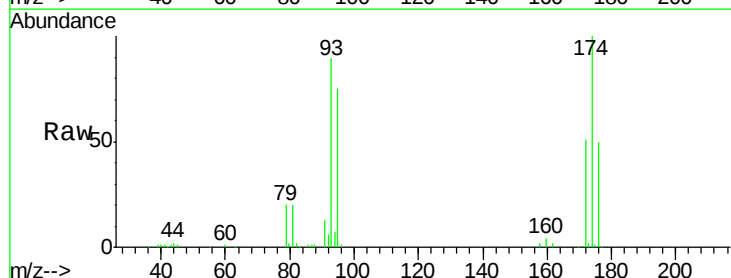
Tgt Ion: 93 Resp: 60786

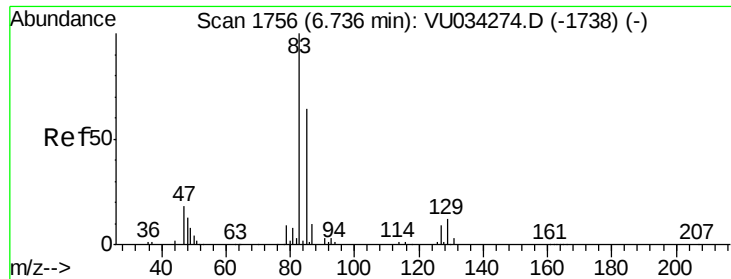
Ion Ratio Lower Upper

93 100

95 84.3 66.5 99.7

174 108.7 87.8 131.6





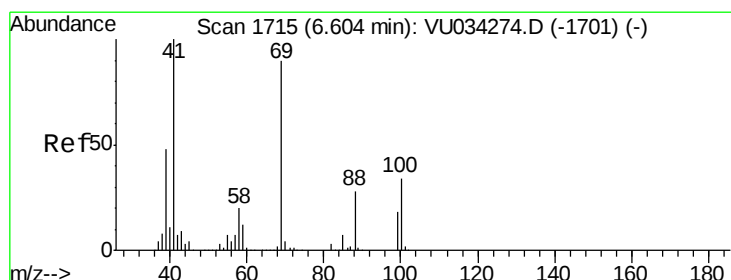
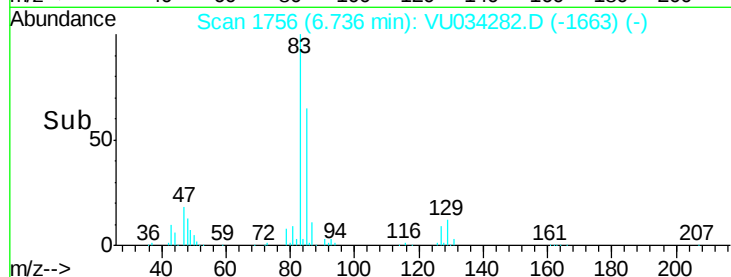
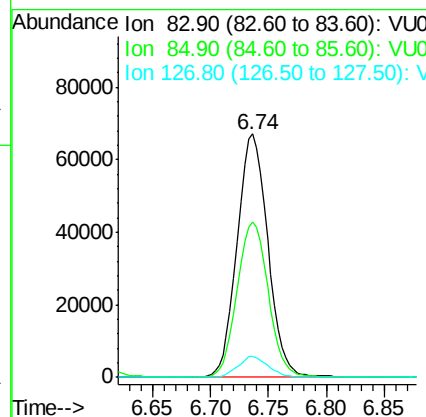
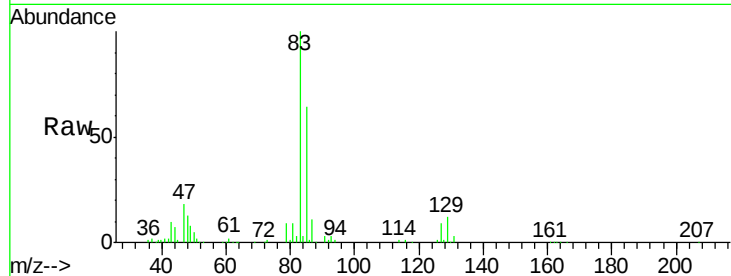
#47
Bromodichloromethane
Concen: 19.405 ug/l
RT: 6.74 min Scan# 1756
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	63.7	51.1	76.7	
127	8.7	7.2	10.8	

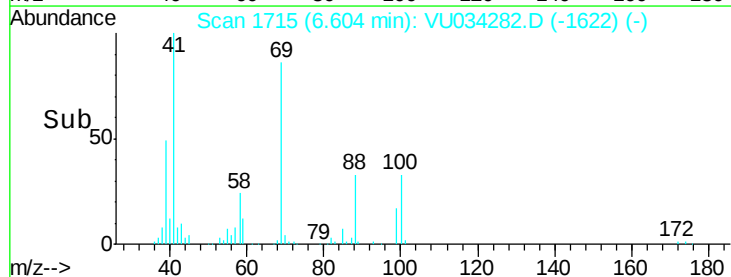
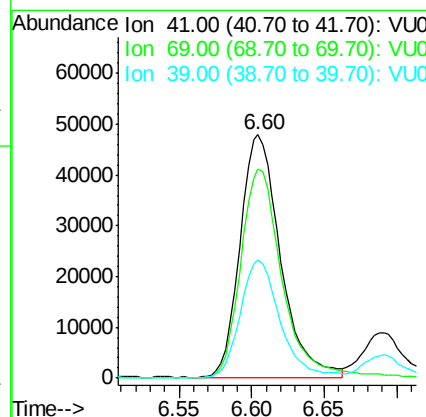
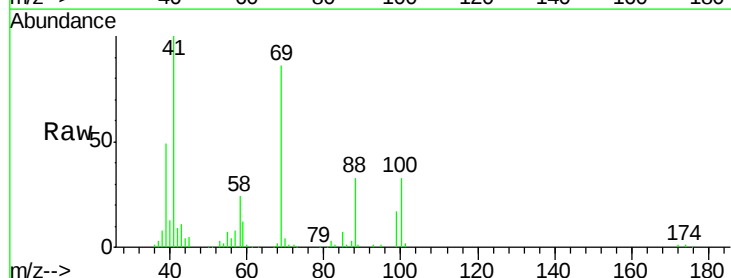
Manual Integrations
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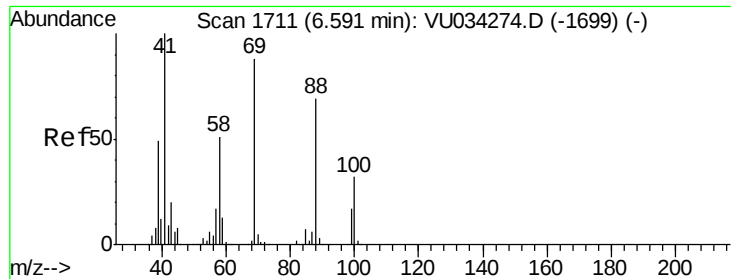
MMDadoda
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#48
Methyl methacrylate
Concen: 20.254 ug/l
RT: 6.60 min Scan# 1715
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	89.5	72.8	109.2	
39	47.6	38.6	58.0	





#49

1,4-Dioxane

Concen: 420.681 ug/l

RT: 6.59 min Scan# 1712

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

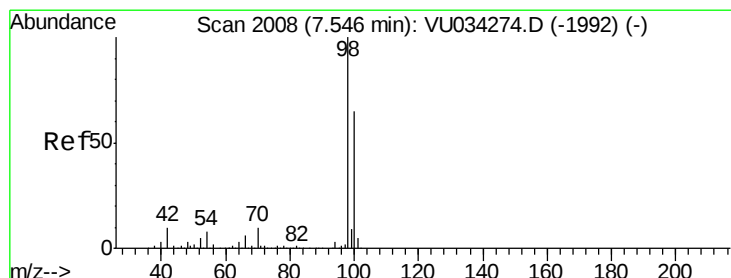
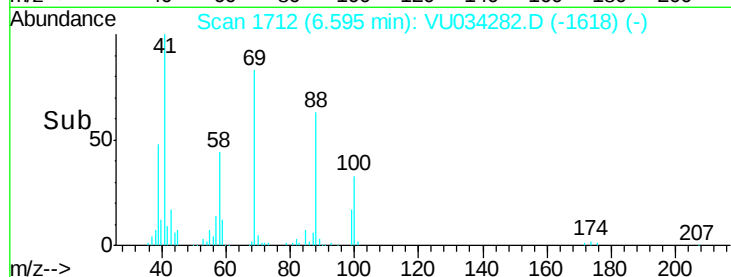
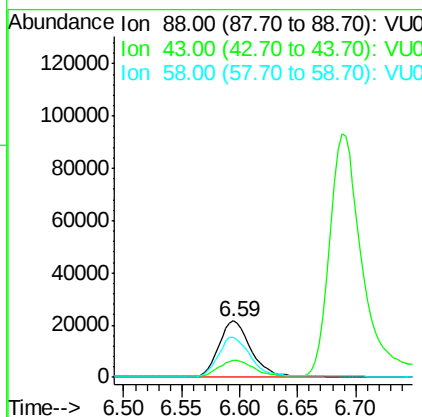
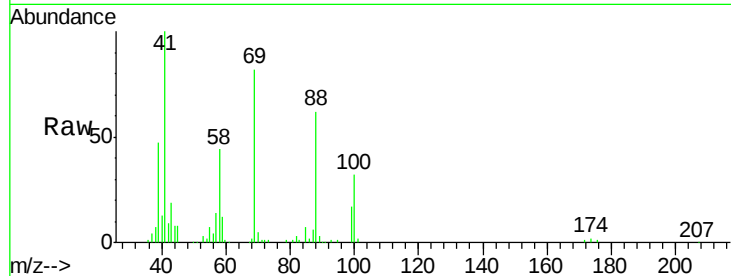
ClientSampleId :

VU0906WBSD01

Tot Ion:	88	Resp:	41949
Ion	Ratio	Lower	Upper
88	100		
43	29.5	23.8	35.6
58	72.4	58.4	87.6

Manual Integrations
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#50

Toluene-d8

Concen: 50.133 ug/l

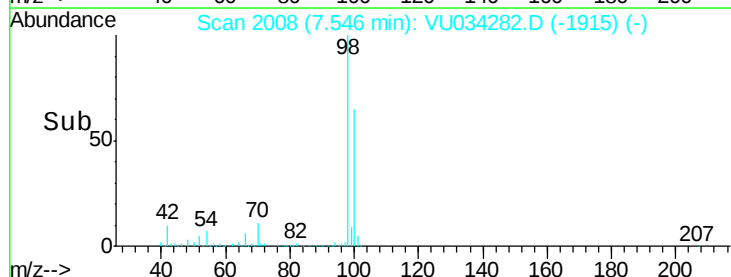
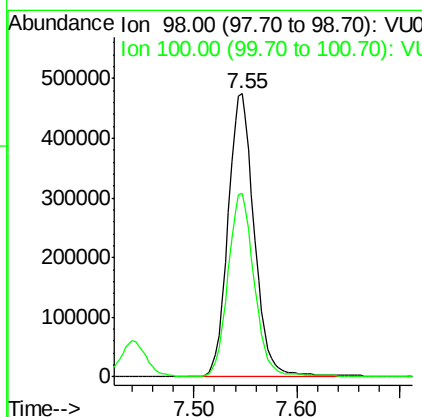
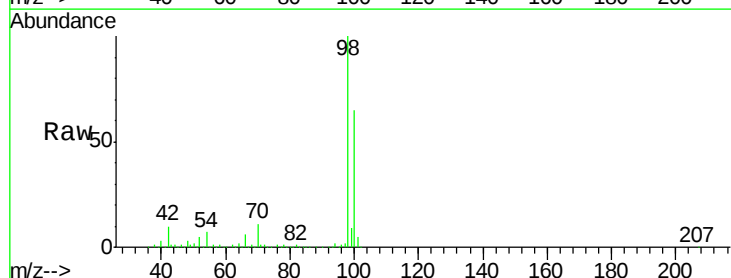
RT: 7.55 min Scan# 2008

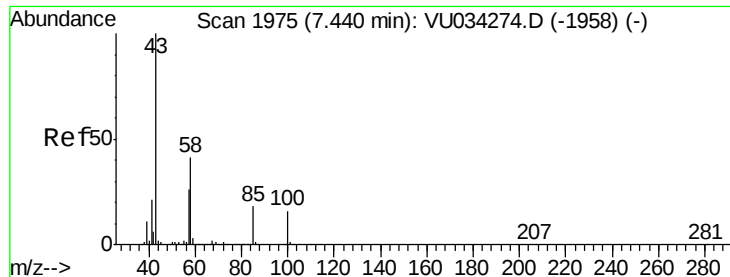
Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Tgt Ion:	98	Resp:	842409
Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 102.199 ug/l

RT: 7.44 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion: 43 Resp: 680154

Ion Ratio Lower Upper

43 100

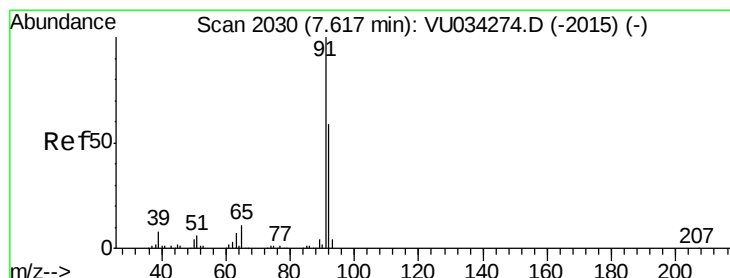
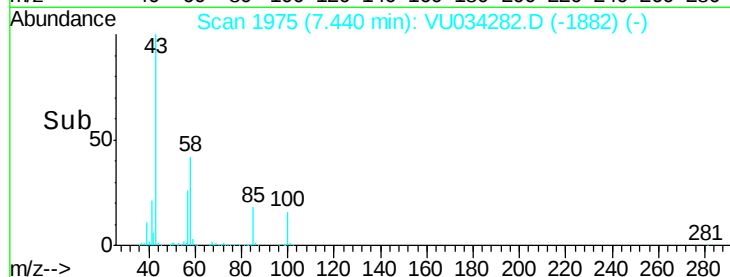
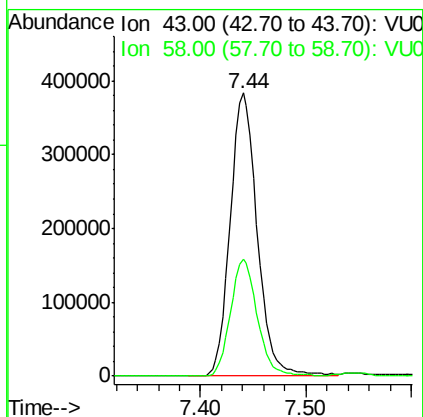
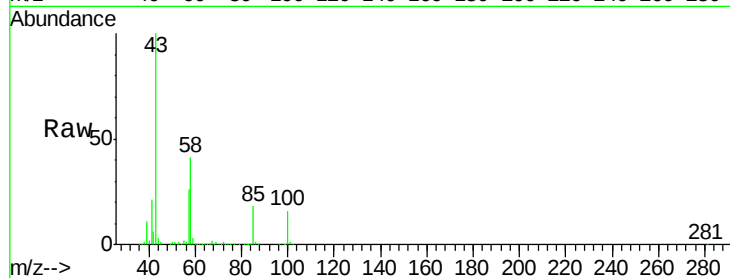
58 40.9 33.0 49.4

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#52

Toluene

Concen: 20.234 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034282.D

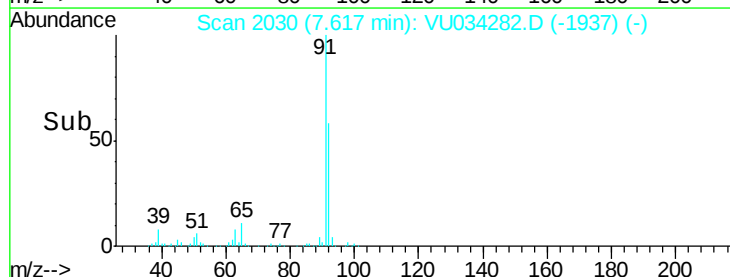
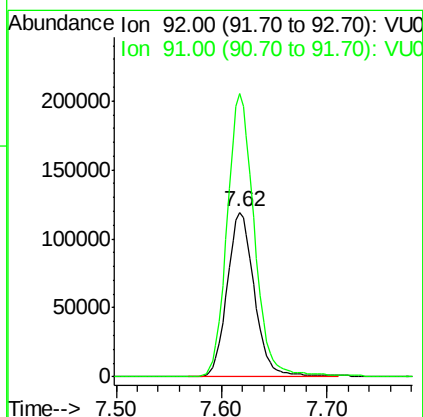
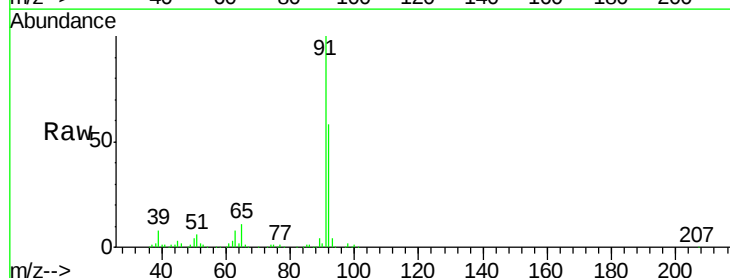
Acq: 05 Sep 2019 14:35

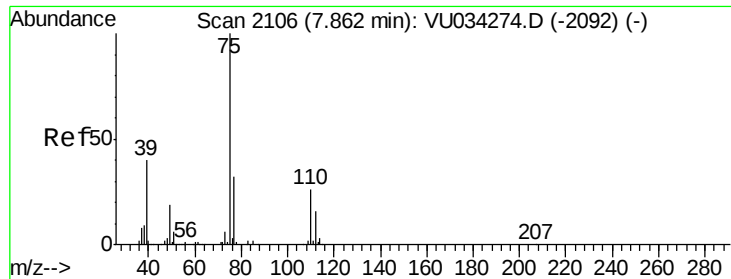
Tgt Ion: 92 Resp: 213504

Ion Ratio Lower Upper

92 100

91 172.1 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 19.430 ug/l

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion: 75 Resp: 127972

Ion Ratio Lower Upper

75 100

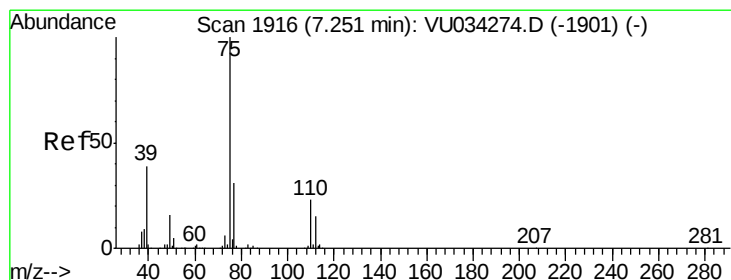
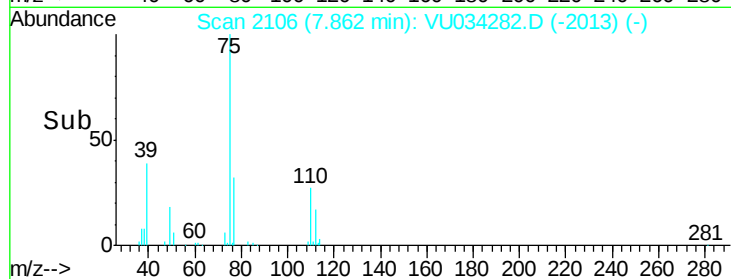
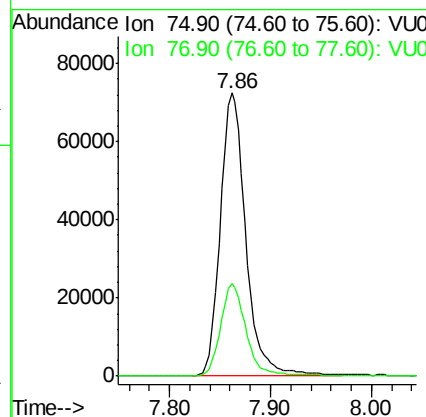
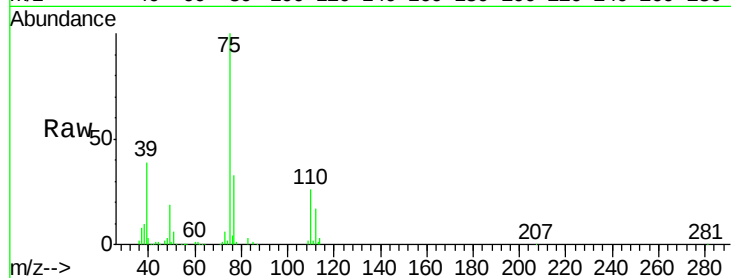
77 32.6 25.7 38.5

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 19.919 ug/l

RT: 7.25 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

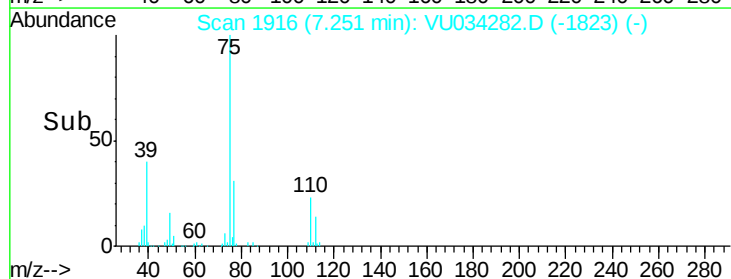
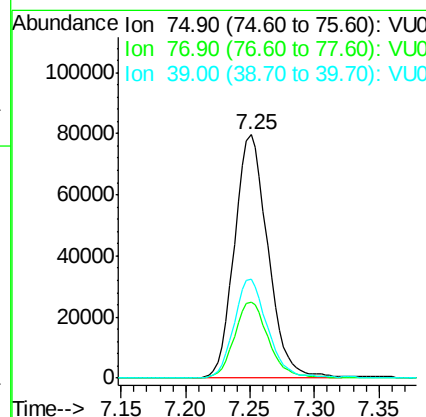
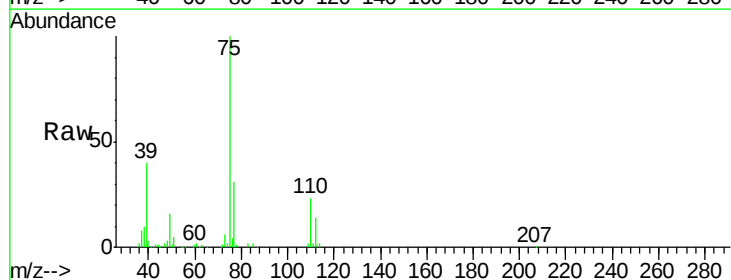
Tgt Ion: 75 Resp: 143987

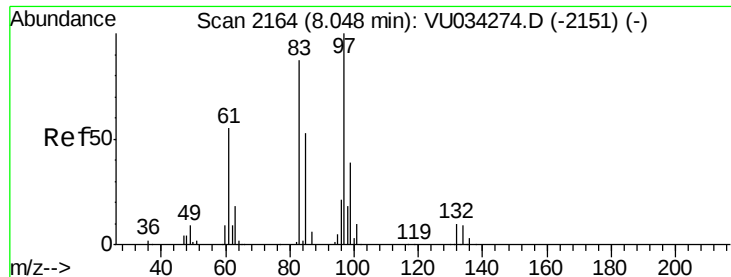
Ion Ratio Lower Upper

75 100

77 31.4 25.1 37.7

39 40.4 31.2 46.8





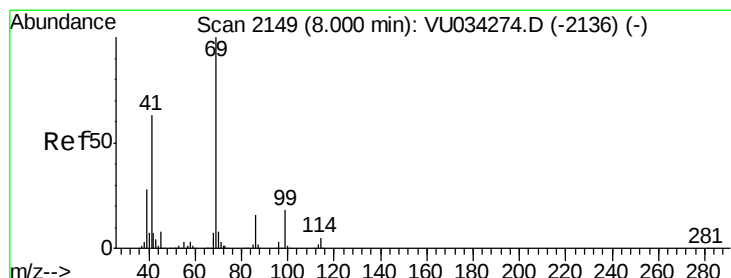
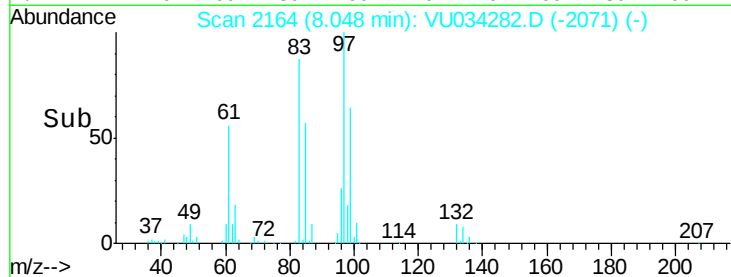
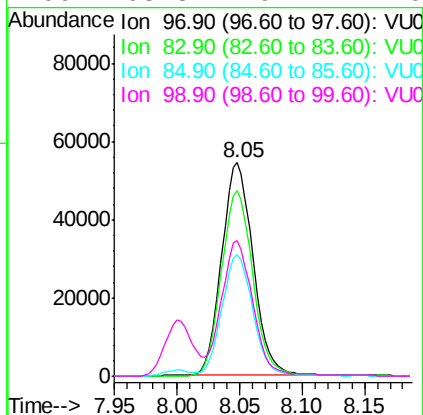
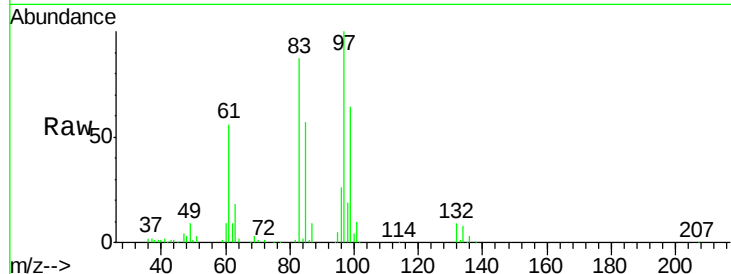
#55
 1,1,2-Trichloroethane
 Concen: 19.704 ug/l
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD01

Tot Ion:	97	Resp:	94406
Ion	Ratio	Lower	Upper
97	100		
83	87.2	69.0	103.6
85	57.1	44.2	66.2
99	63.3	49.4	74.0

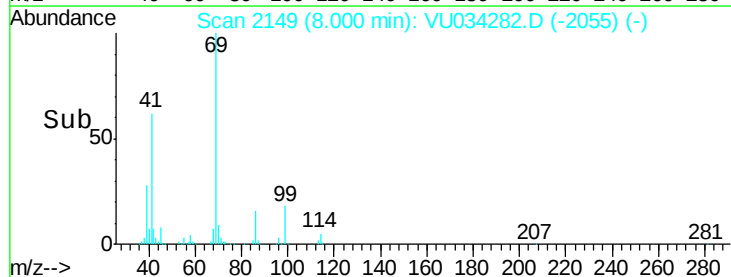
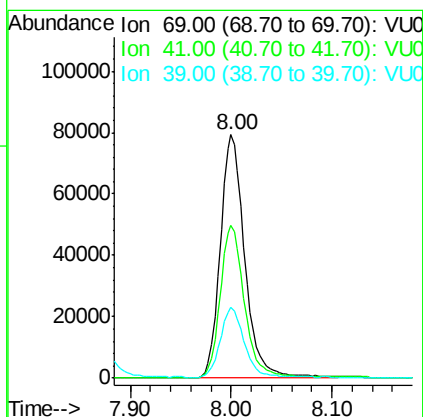
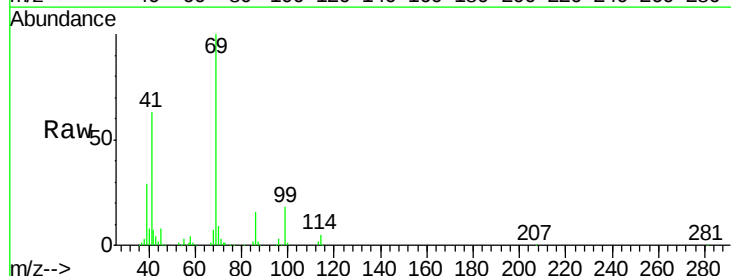
Manual Integrations
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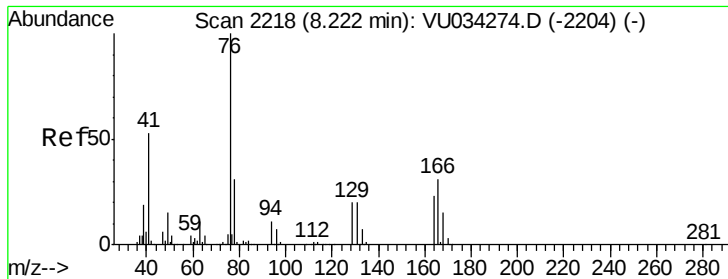
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#56
 Ethyl methacrylate
 Concen: 20.454 ug/l
 RT: 8.00 min Scan# 2149
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Tgt Ion:	69	Resp:	134789
Ion	Ratio	Lower	Upper
69	100		
41	62.1	49.5	74.3
39	28.1	22.5	33.7





#57

1,3-Dichloropropane

Concen: 19.714 ug/l

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion: 76 Resp: 153806

Ion Ratio Lower Upper

76 100

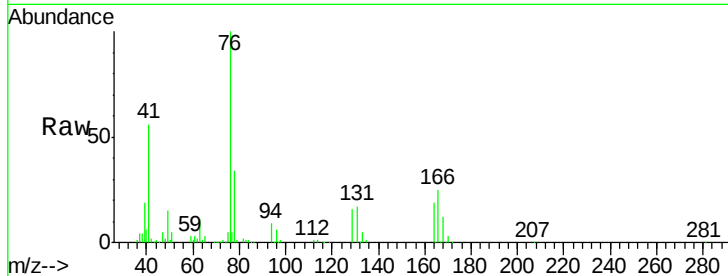
78 33.4 25.4 38.2

Manual Integrations

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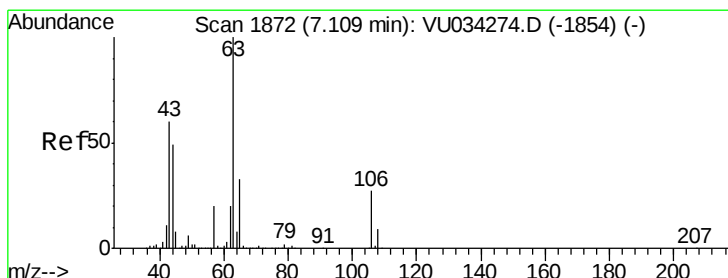
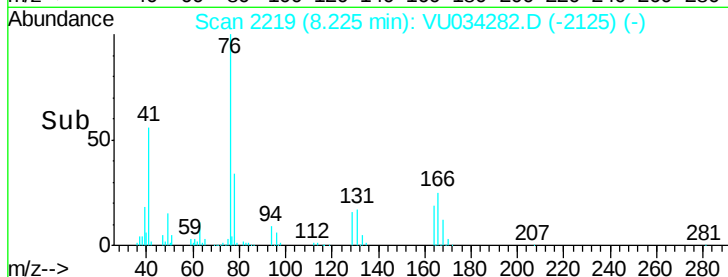
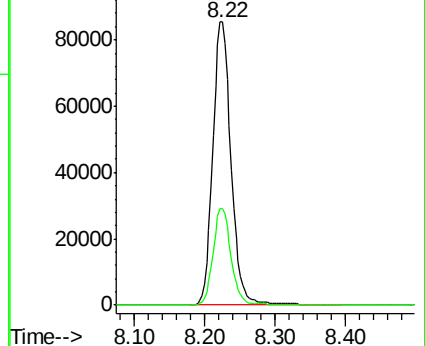
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Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#58

2-Chloroethyl Vinyl ether

Concen: 96.519 ug/l

RT: 7.11 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VU034282.D

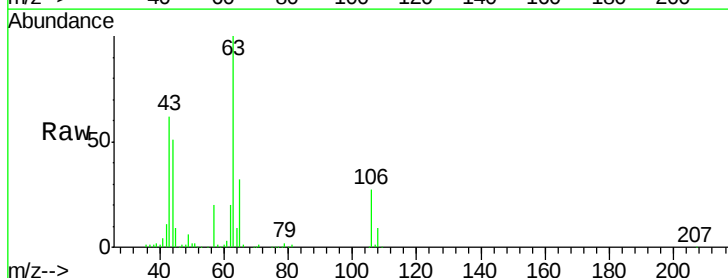
Acq: 05 Sep 2019 14:35

Tgt Ion: 63 Resp: 210790

Ion Ratio Lower Upper

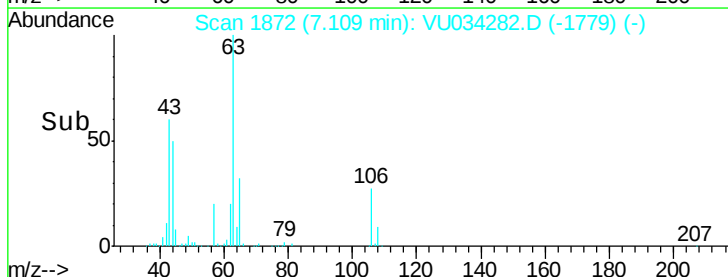
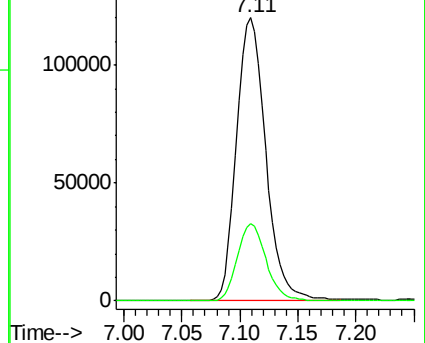
63 100

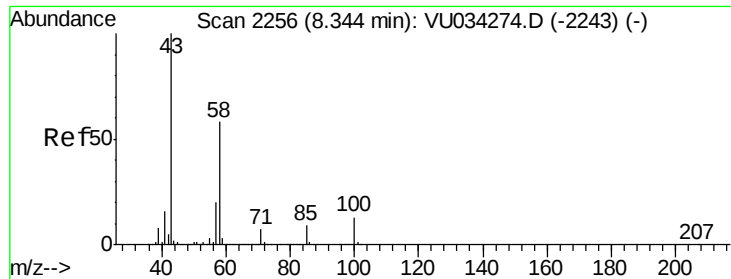
106 26.8 21.6 32.4



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V





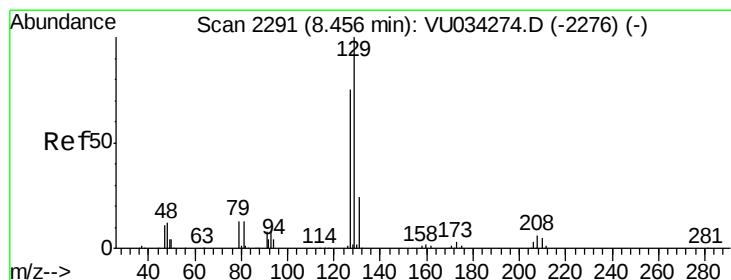
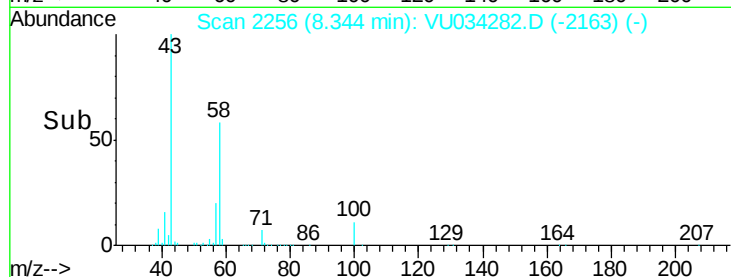
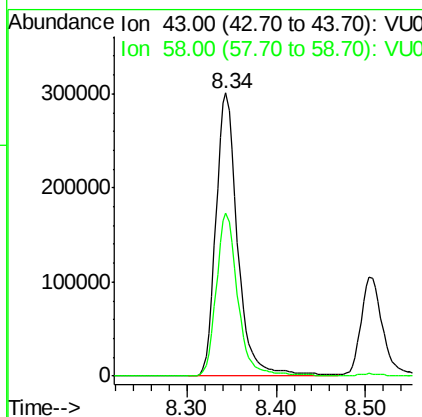
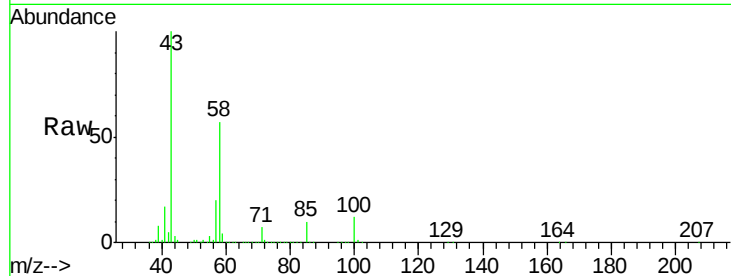
#59
2-Hexanone
Concen: 102.153 ug/l
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD01

Tot Ion	43	Resp	507883
Ion Ratio	43	100	
Lower	58	57.3	28.8
Upper			86.5

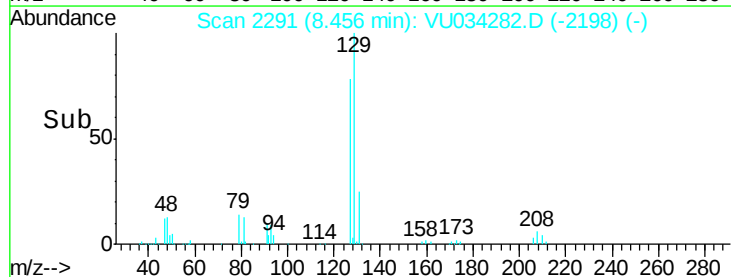
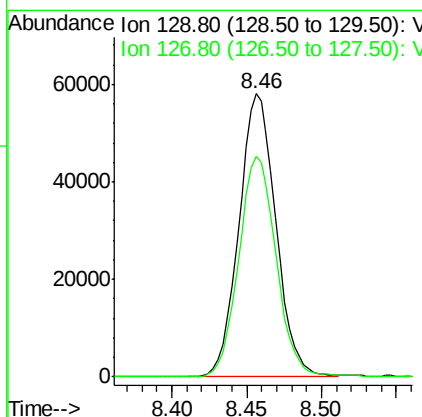
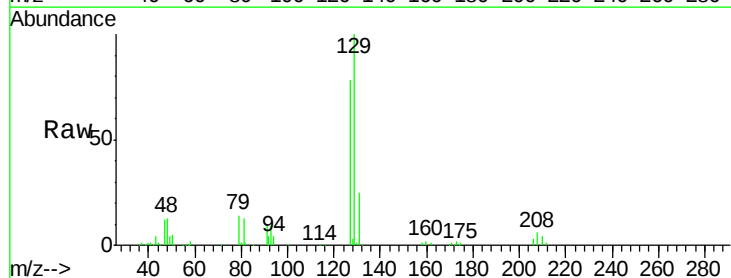
Manual Integrations
APPROVED

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9/6/2019 3:21:57 PM



#60
Dibromochloromethane
Concen: 19.380 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Tgt Ion	129	Resp	99594
Ion Ratio	129	100	
Lower	127	79.2	37.9
Upper			113.7





#61

1,2-Dibromoethane

Concen: 19.782 ug/l

RT: 8.57 min Scan# 2325

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion:107 Resp: 92769

Ion Ratio Lower Upper

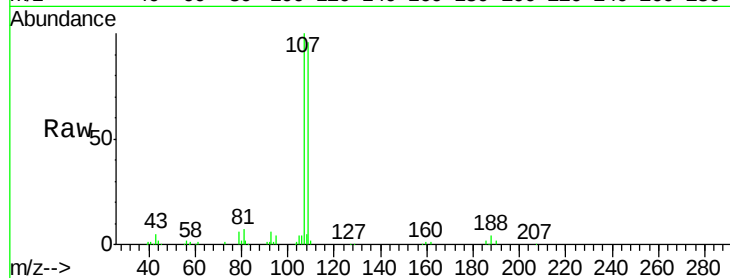
107 100

109 95.6 75.0 112.6

Manual Integrations
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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.57

60000

50000

40000

30000

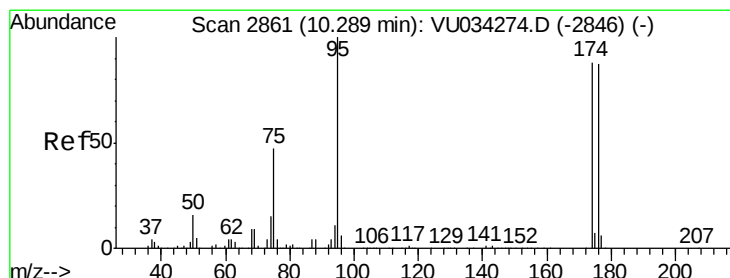
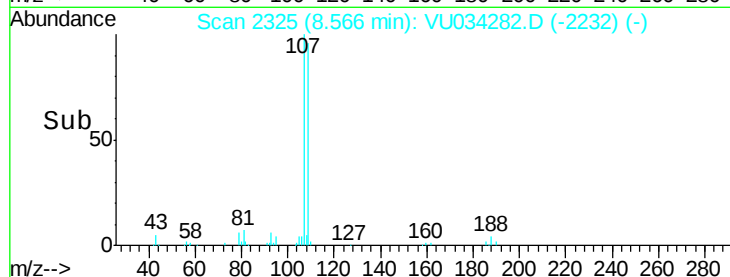
20000

10000

0

Time-->

8.50 8.60 8.70



#62

4-Bromofluorobenzene

Concen: 47.992 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

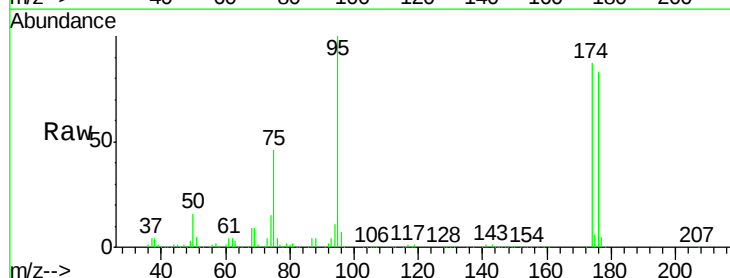
Tgt Ion: 95 Resp: 311362

Ion Ratio Lower Upper

95 100

174 86.1 0.0 175.2

176 83.4 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

150000

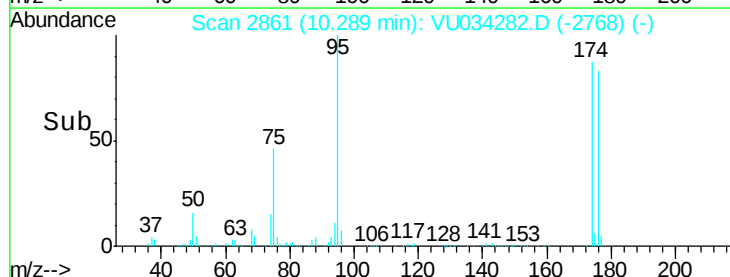
100000

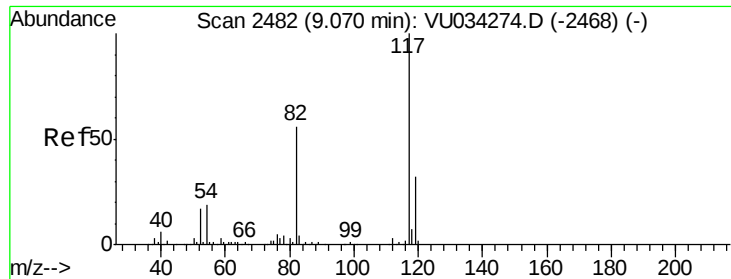
50000

0

Time-->

10.20 10.30 10.40





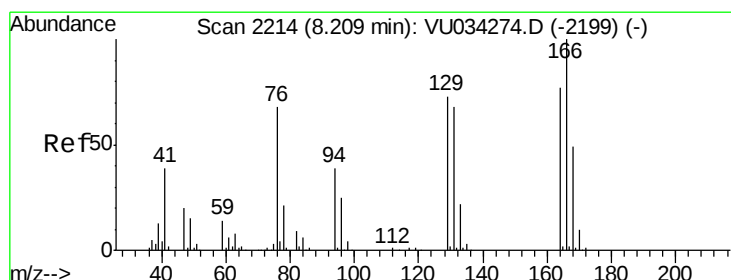
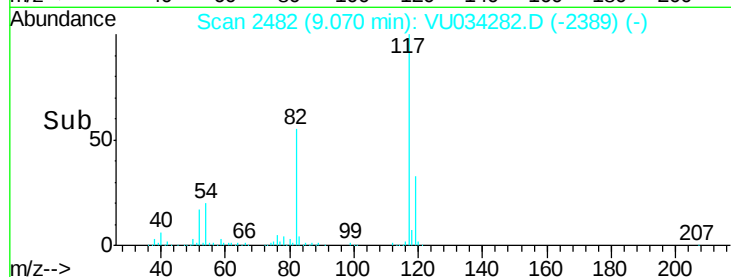
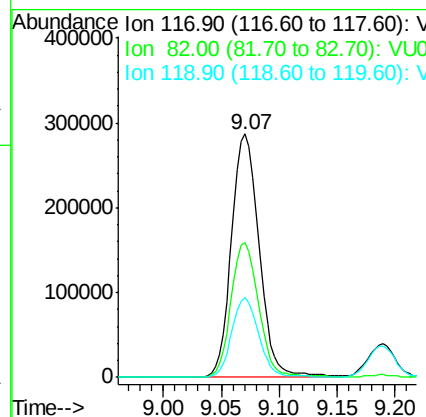
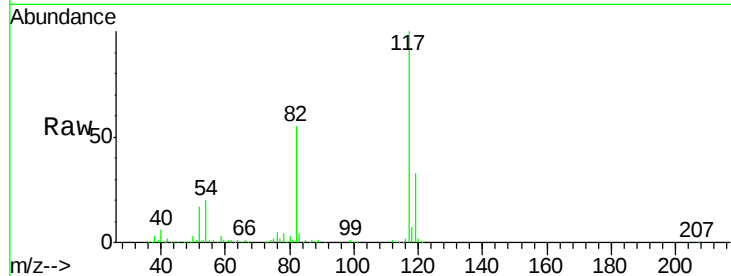
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.3	44.6	67.0
119	32.5	25.9	38.9

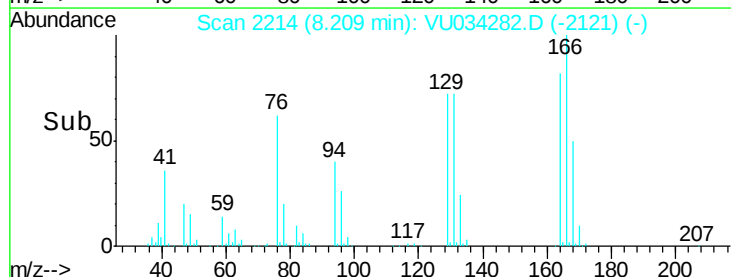
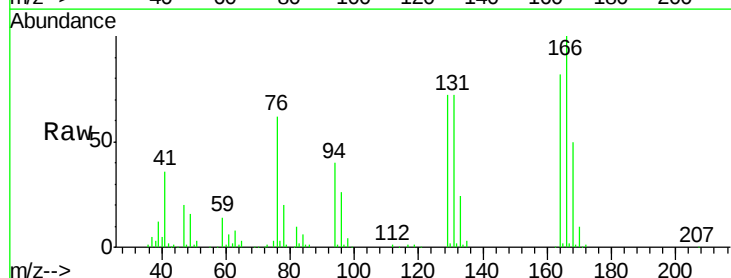
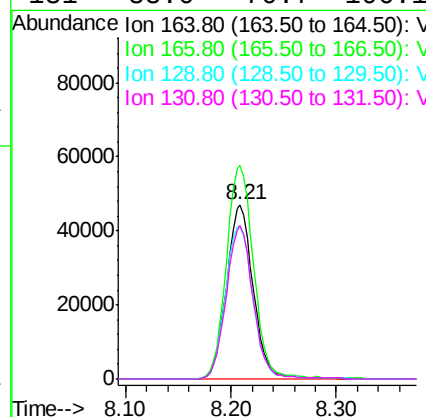
Manual Integrations
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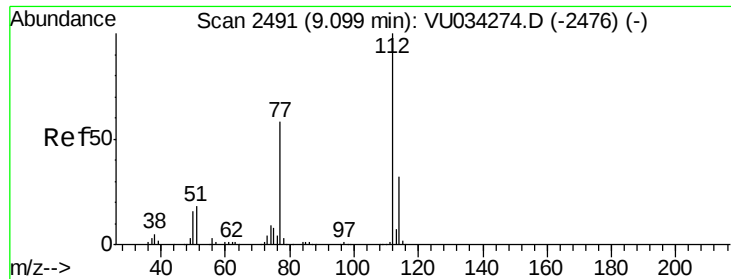
MMDadoda
9/6/2019 3:21:57 PM



#64
Tetrachloroethene
Concen: 19.920 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.3	103.7	155.5
129	87.5	75.8	113.8
131	88.0	70.7	106.1





#65

Chlorobenzene

Concen: 20.112 ug/l

RT: 9.10 min Scan# 2491

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion:112 Resp: 243582

Ion Ratio Lower Upper

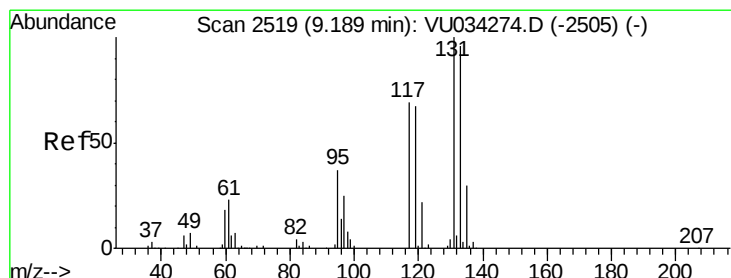
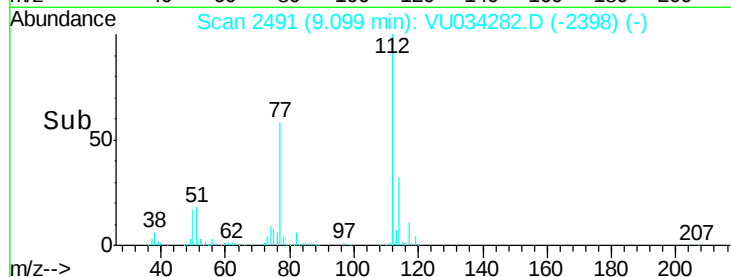
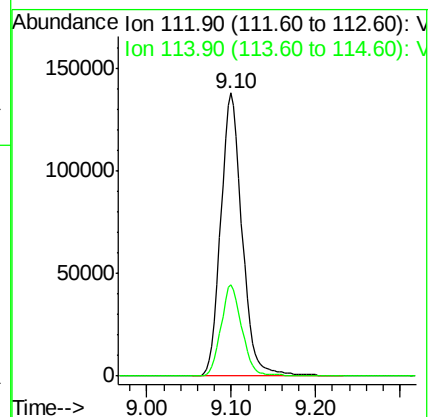
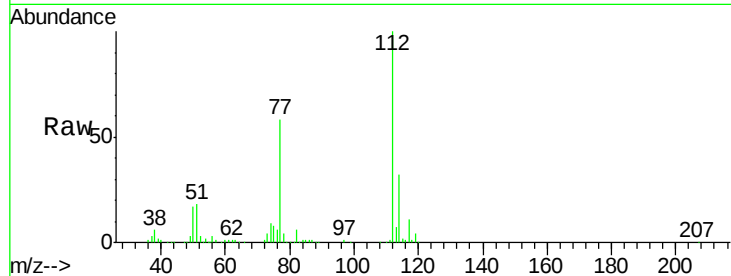
112 100

114 32.4 25.9 38.9

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 19.393 ug/l

RT: 9.19 min Scan# 2519

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

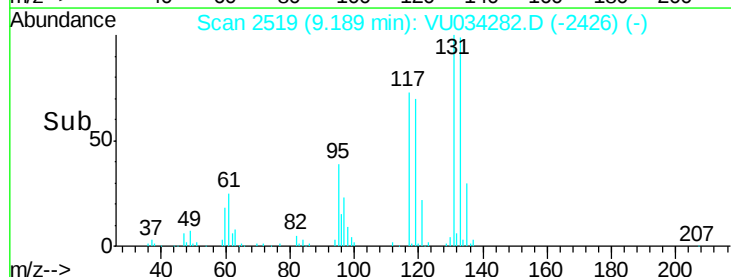
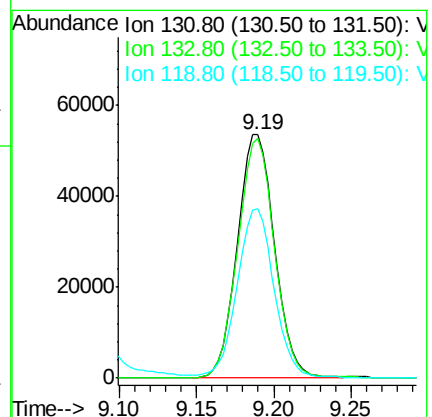
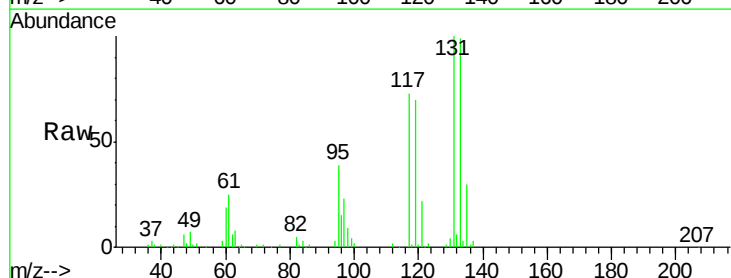
Tgt Ion:131 Resp: 89634

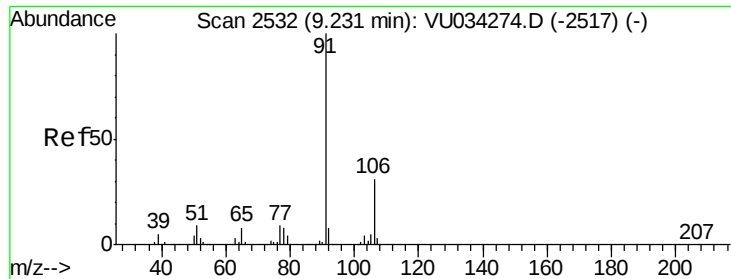
Ion Ratio Lower Upper

131 100

133 97.6 47.9 143.7

119 68.6 33.1 99.5





#67

Ethyl Benzene

Concen: 20.428 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion: 91 Resp: 404524

Ion Ratio Lower Upper

91 100

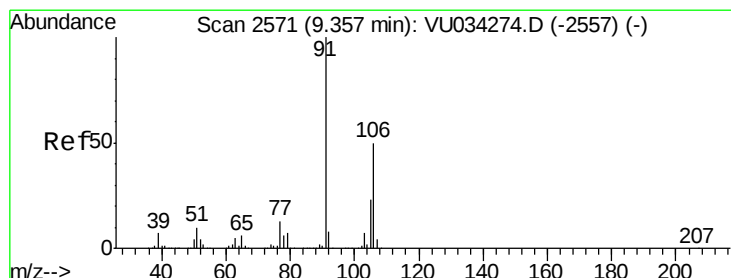
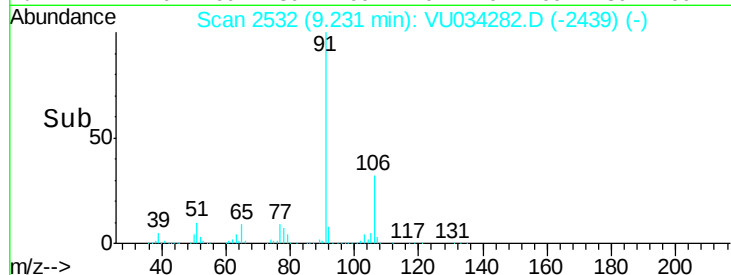
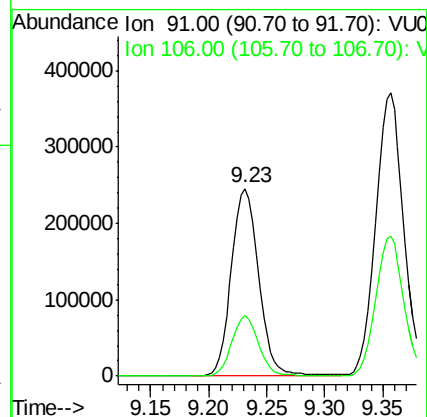
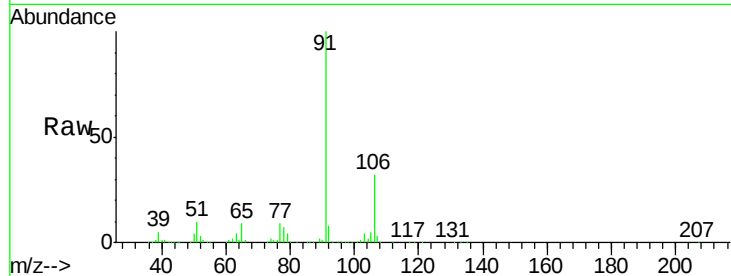
106 32.2 24.8 37.2

Manual Integrations

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#68

m/p-Xylenes

Concen: 42.024 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU034282.D

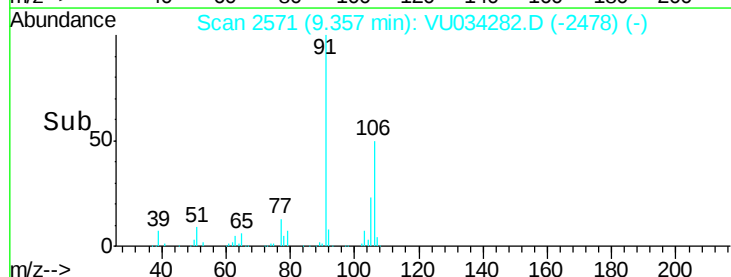
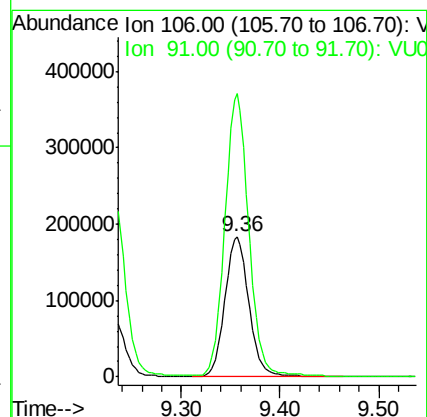
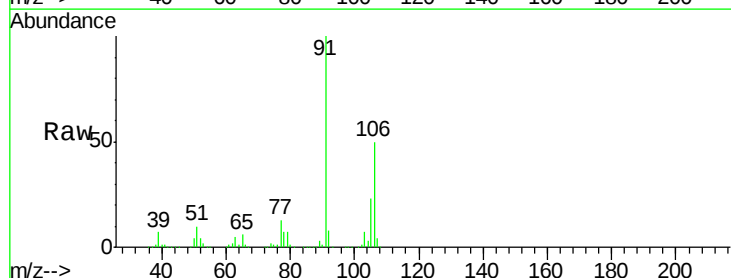
Acq: 05 Sep 2019 14:35

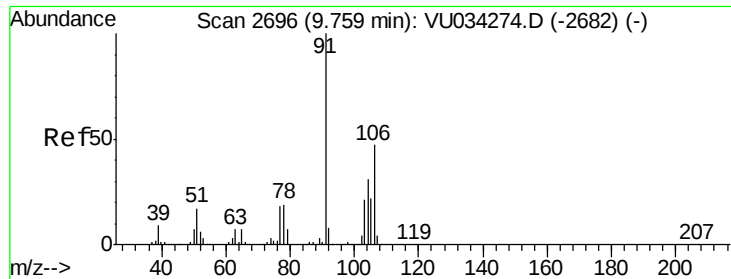
Tgt Ion: 106 Resp: 313364

Ion Ratio Lower Upper

106 100

91 201.6 160.1 240.1





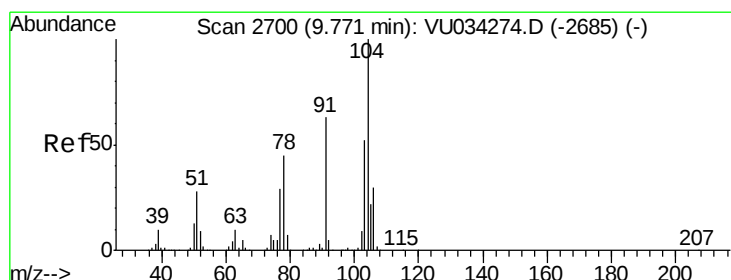
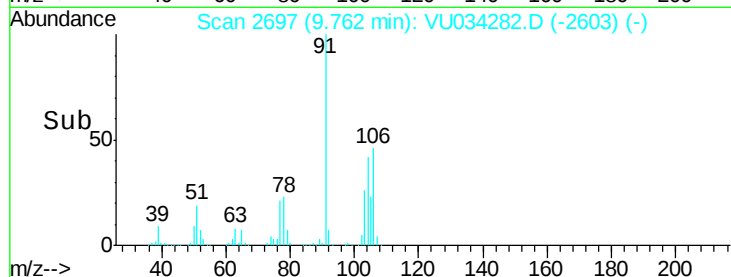
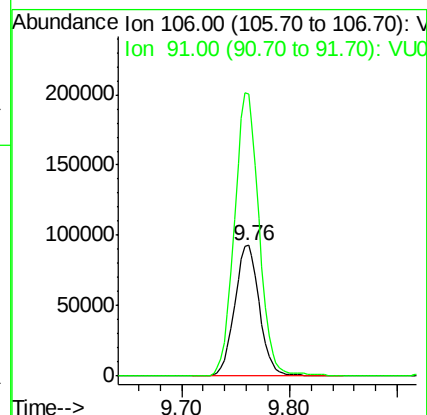
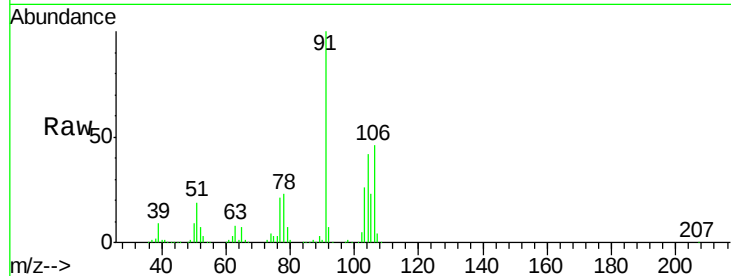
#69
o-Xylene
Concen: 20.495 ug/l
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
106	100	149461		
91	215.1	105.1	315.3	

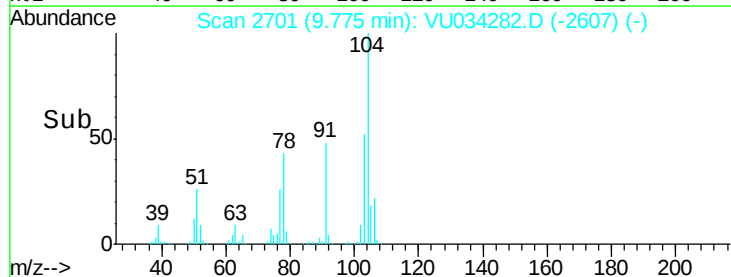
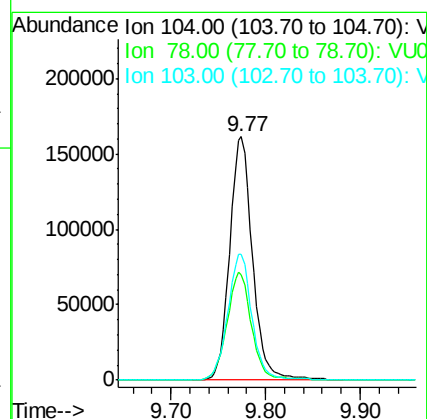
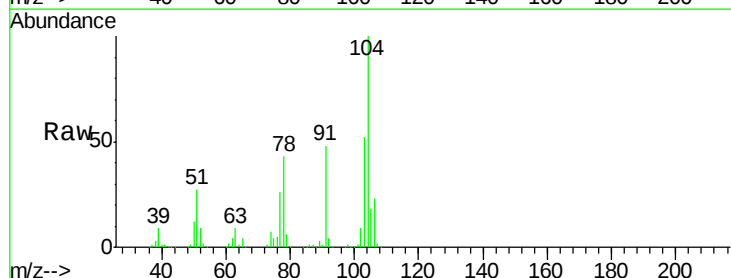
Manual Integrations
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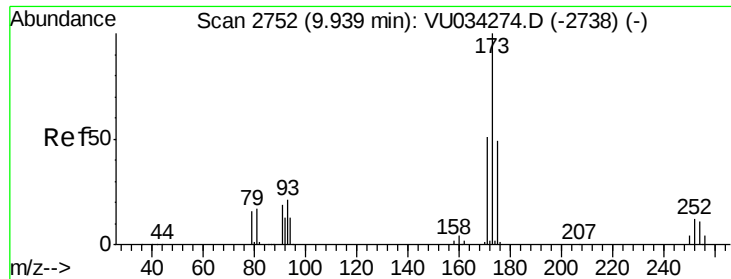
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#70
Styrene
Concen: 21.247 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	271662		
78	47.7	38.6	57.8	
103	54.9	44.2	66.4	





#71

Bromoform

Concen: 19.497 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

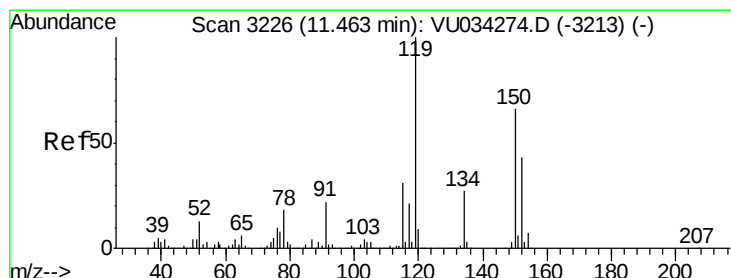
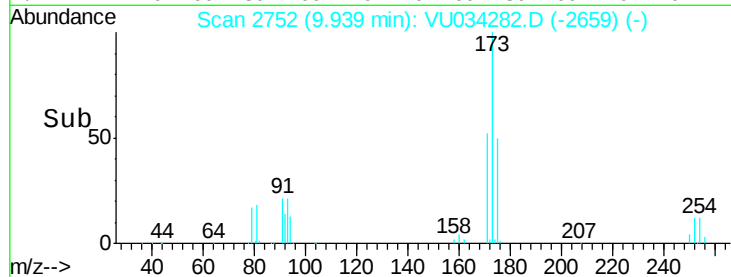
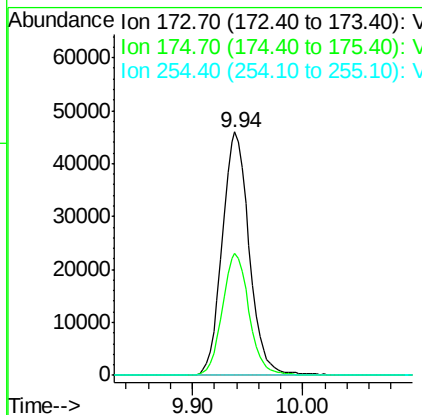
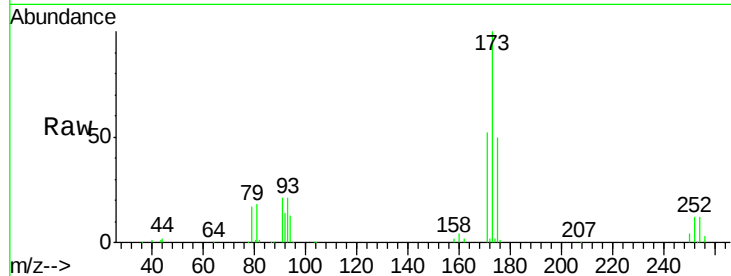
ClientSampleId :

VU0906WBSD01

Tot Ion:	173	Resp:	78102
Ion Ratio	Lower	Upper	
173	100		
175	49.6	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

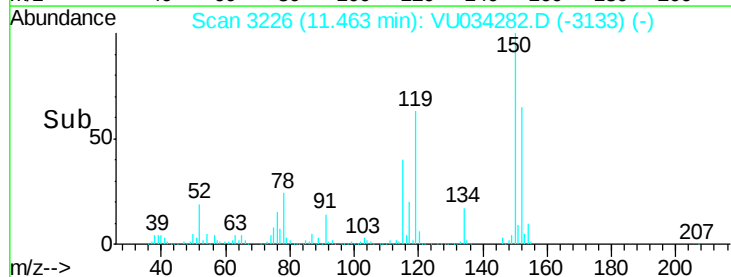
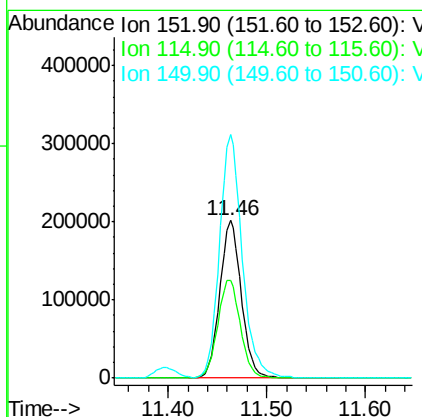
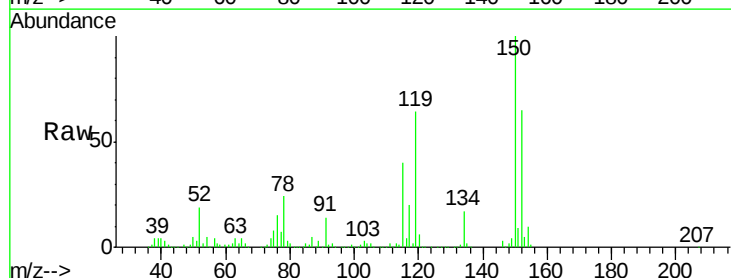
RT: 11.46 min Scan# 3226

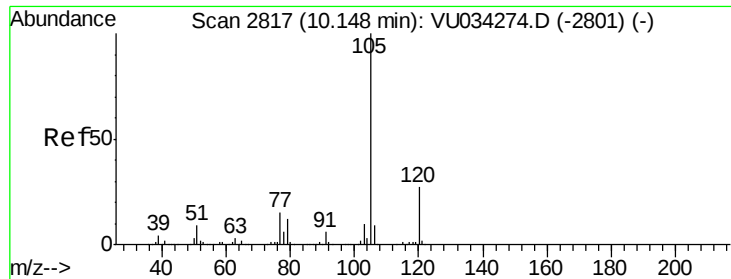
Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Tgt Ion:	152	Resp:	310764
Ion Ratio	Lower	Upper	
152	100		
115	65.5	39.1	117.3
150	161.9	0.0	345.4





#73

Isopropylbenzene

Concen: 20.739 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion: 105 Resp: 419430

Ion Ratio Lower Upper

105 100

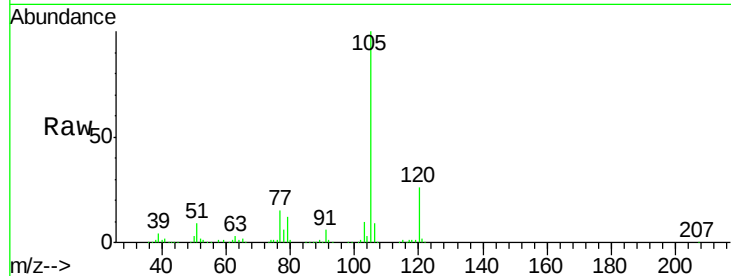
120 26.6 13.4 40.2

Manual Integrations

APPROVED

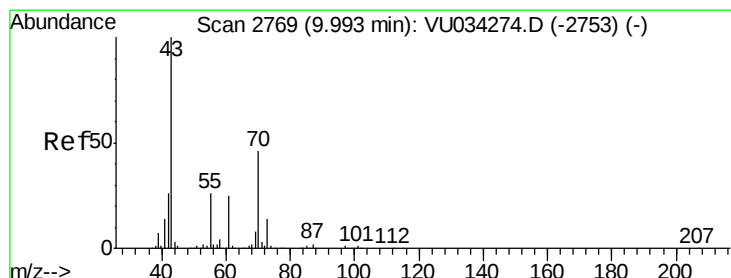
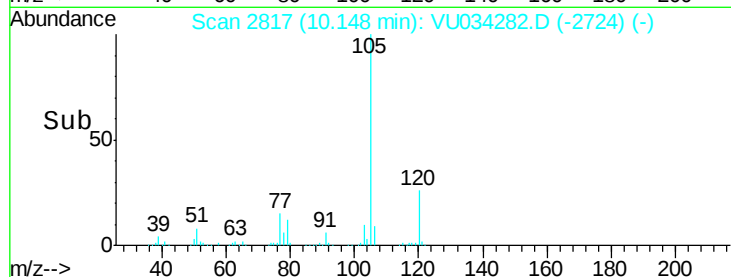
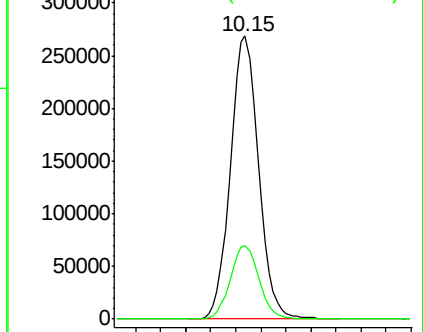
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 21.077 ug/l

RT: 10.00 min Scan# 2770

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Tgt Ion: 43 Resp: 171578

Ion Ratio Lower Upper

43 100

70 44.5 36.4 54.6

55 26.0 21.2 31.8

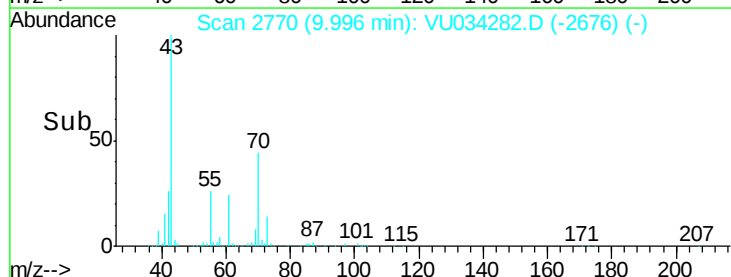
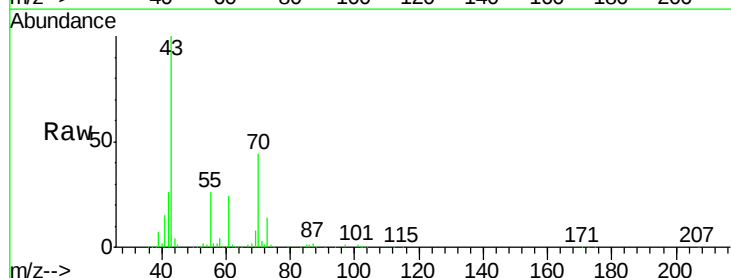
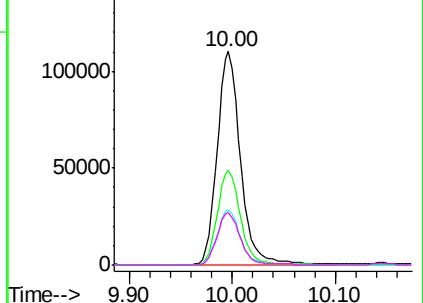
61 24.9 20.4 30.6

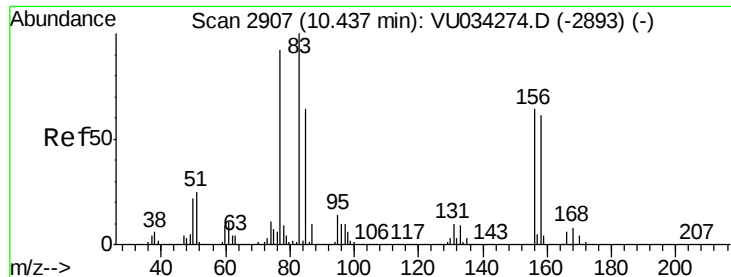
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.610 ug/l

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampleId :

VU0906WBSD01

Tot Ion: 83 Resp: 160533

Ion Ratio Lower Upper

83 100

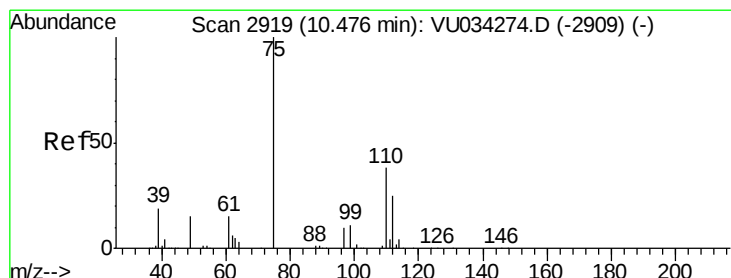
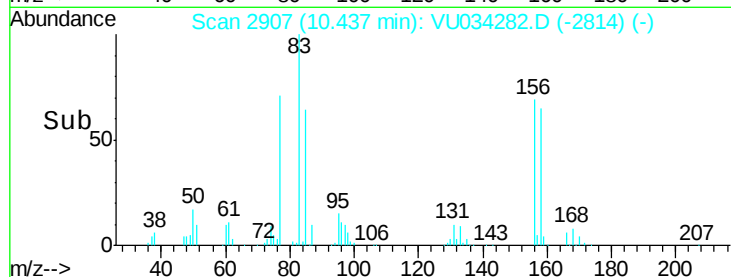
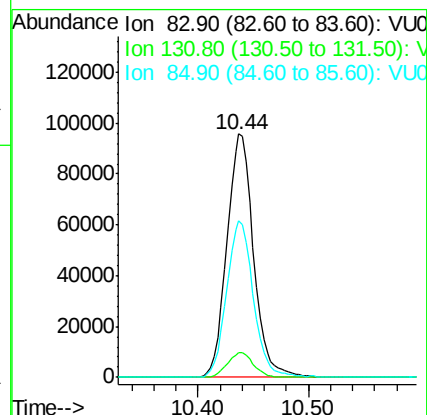
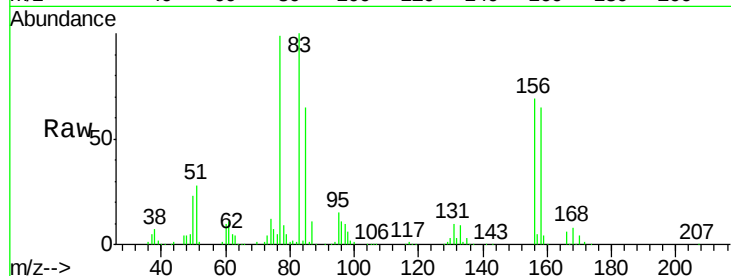
131 10.0 5.1 15.2

85 64.7 32.0 96.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.998 ug/l m

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU034282.D

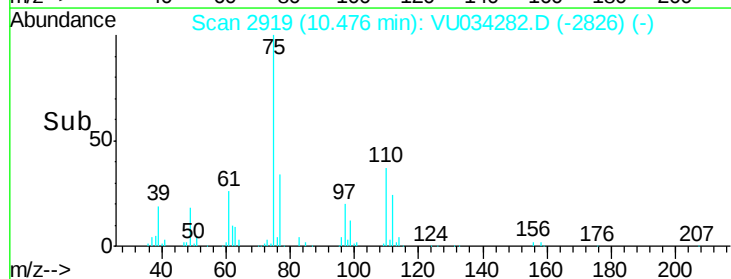
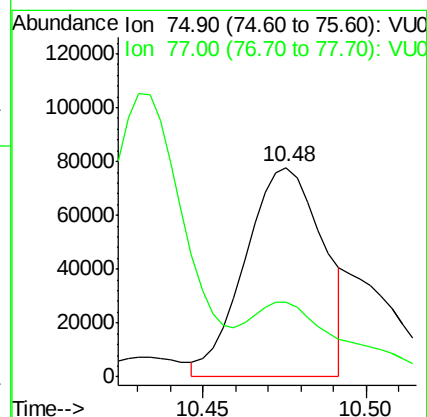
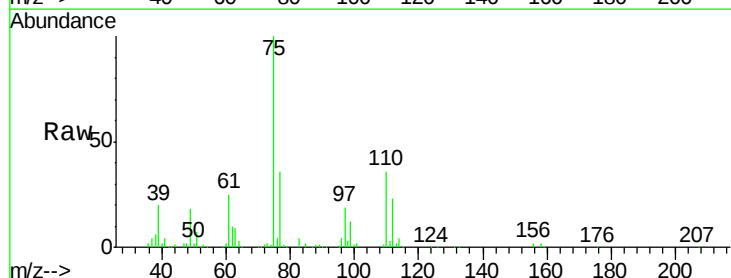
Acq: 05 Sep 2019 14:35

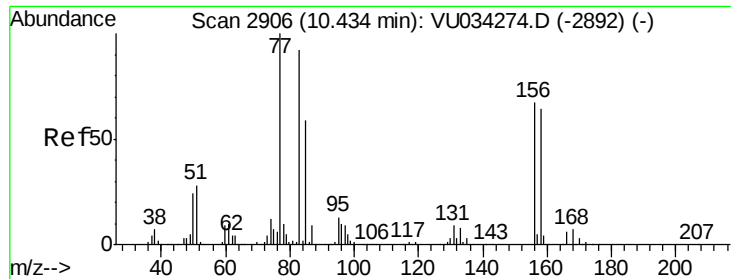
Tgt Ion: 75 Resp: 128873

Ion Ratio Lower Upper

75 100

77 44.2 20.8 62.2





#77

Bromobenzene

Concen: 20.513 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

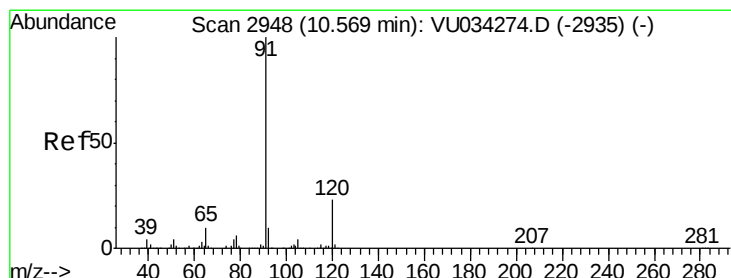
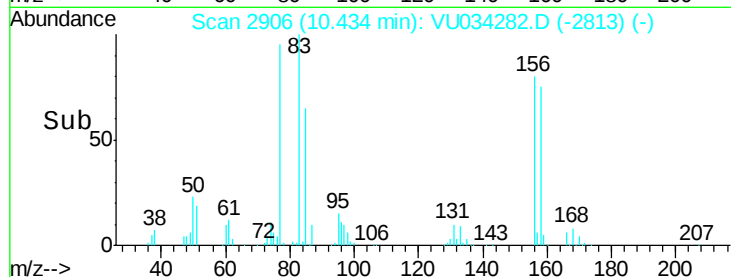
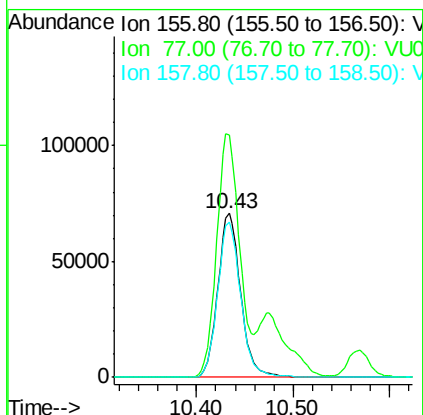
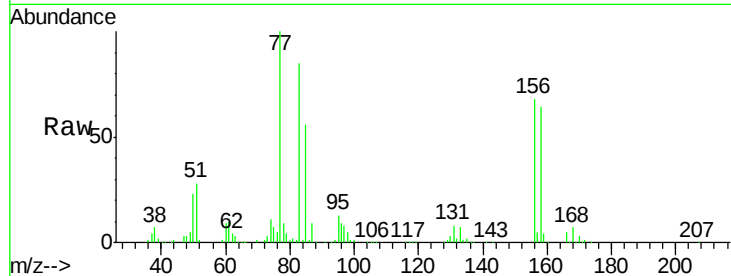
ClientSampleId :

VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
156	100		
77	150.7	75.6	226.9
158	95.8	48.2	144.6

Manual Integrations
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#78

n-propylbenzene

Concen: 20.758 ug/l

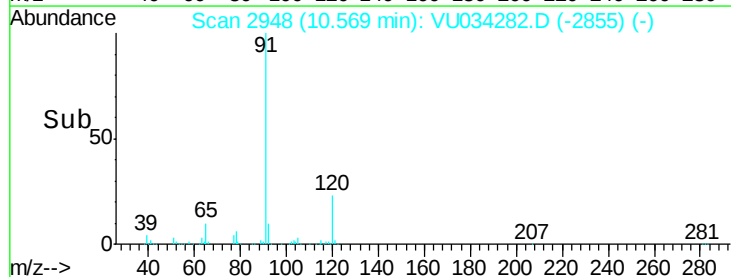
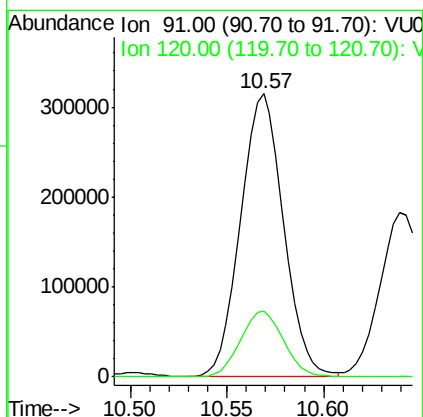
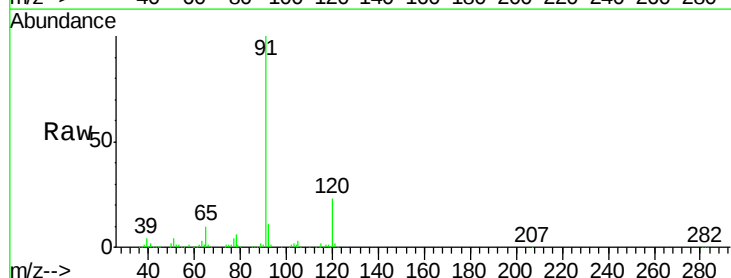
RT: 10.57 min Scan# 2948

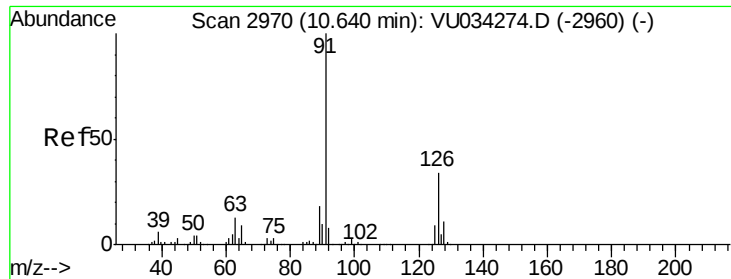
Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.7	35.0





#79

2-Chlorotoluene

Concen: 20.831 ug/l

RT: 10.64 min Scan# 2970

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

ClientSampled :

VU0906WBSD01

Tot Ion: 91 Resp: 296861

Ion Ratio Lower Upper

91 100

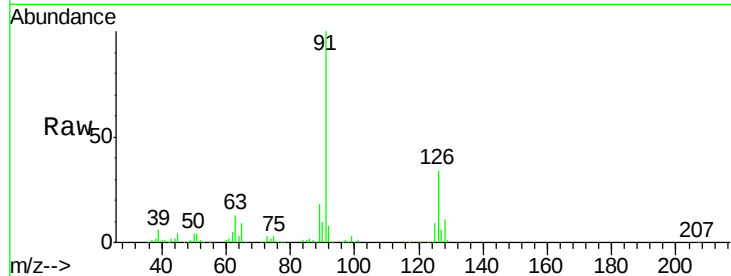
126 34.2 17.3 51.9

Manual Integrations

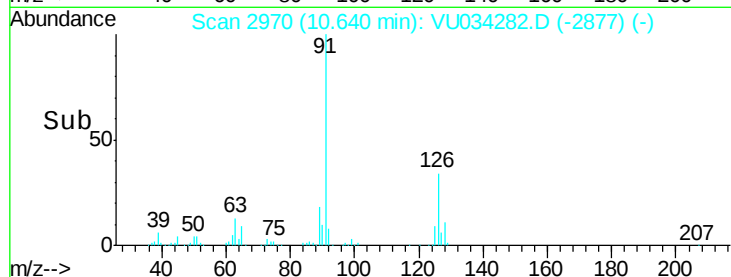
APPROVED

MMDadoda

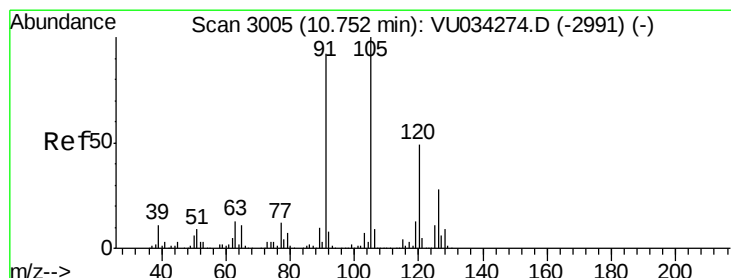
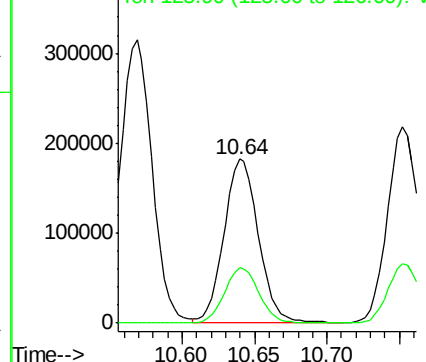
9/6/2019 3:21:57 PM



Abundance Ion 91.00 (90.70 to 91.70): VU034282.D (-2877) (-)



Ion 125.90 (125.60 to 126.60): VU034282.D (-2877) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.567 ug/l

RT: 10.75 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VU034282.D

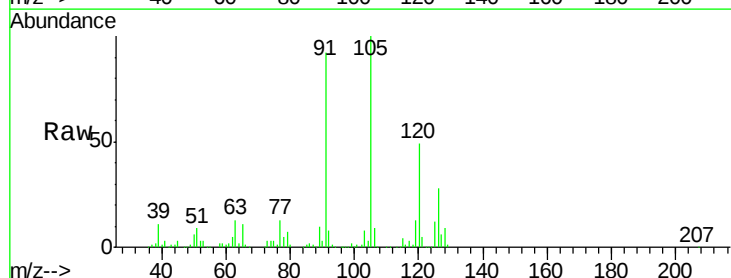
Acq: 05 Sep 2019 14:35

Tgt Ion: 105 Resp: 364778

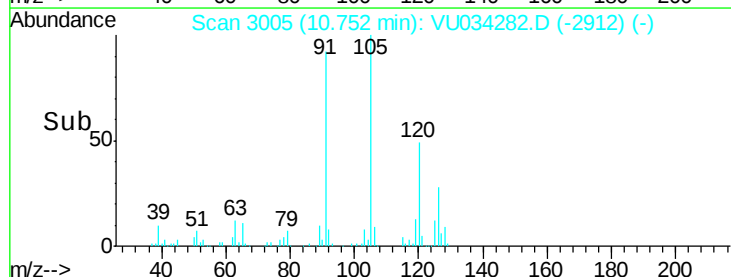
Ion Ratio Lower Upper

105 100

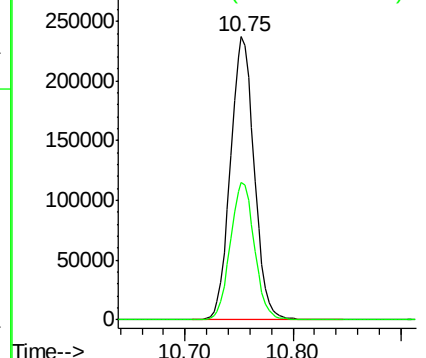
120 49.2 24.9 74.7

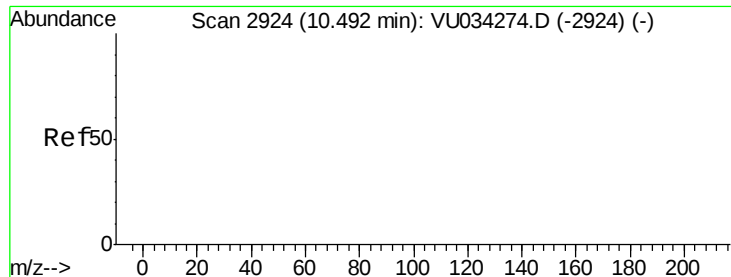


Abundance Ion 105.00 (104.70 to 105.70): VU034282.D (-2912) (-)



Ion 120.00 (119.70 to 120.70): VU034282.D (-2912) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 22.053 ug/l m

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

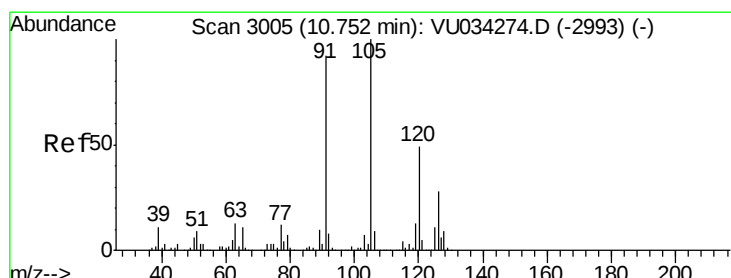
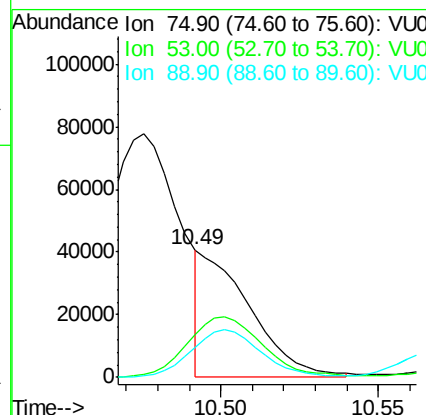
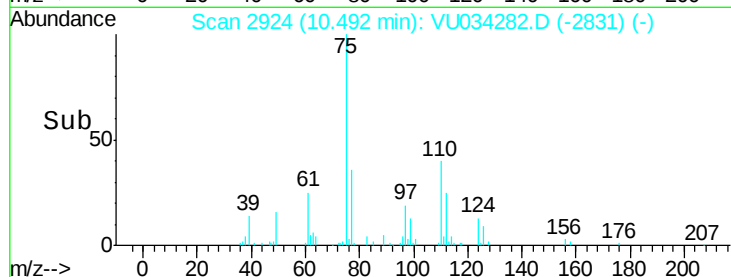
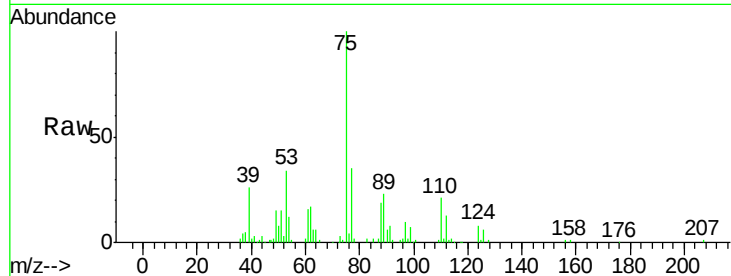
Instrument :
MSVOA_U

ClientSampled :
VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.641 ug/l

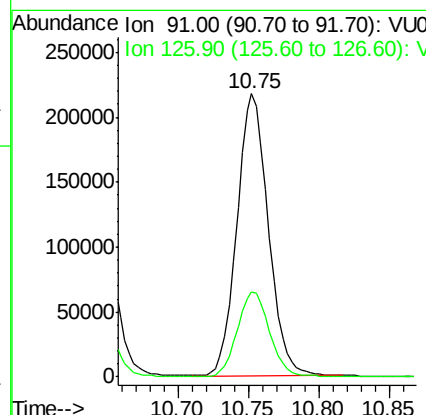
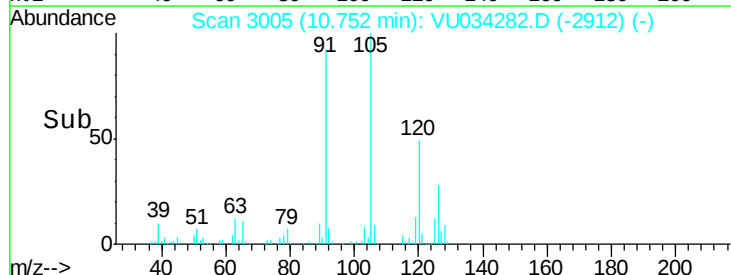
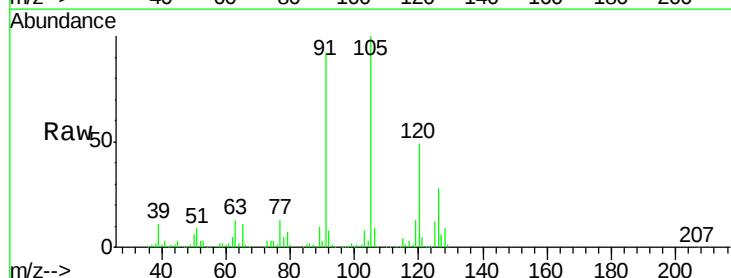
RT: 10.75 min Scan# 3005

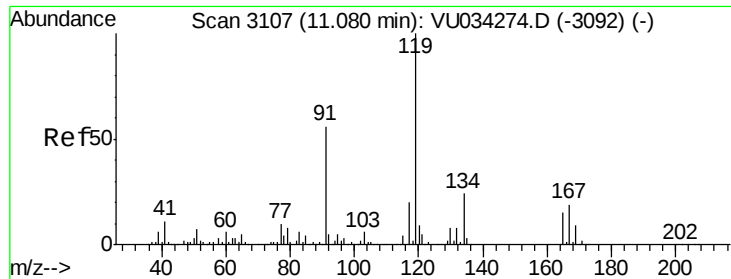
Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.3	45.8





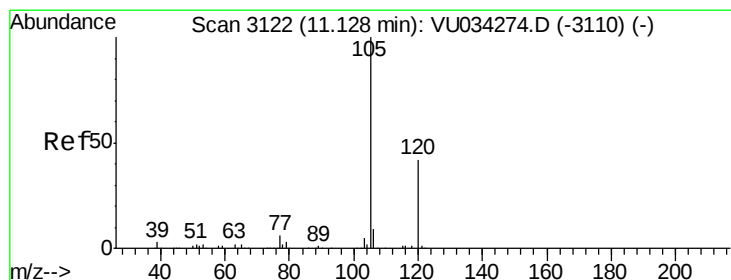
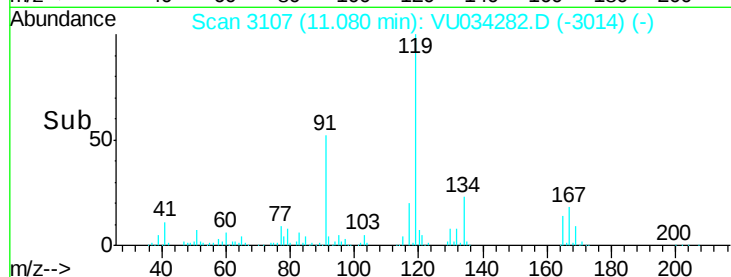
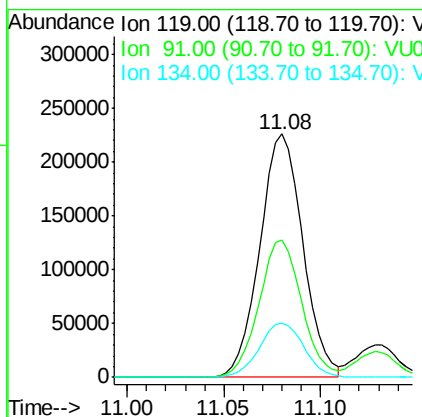
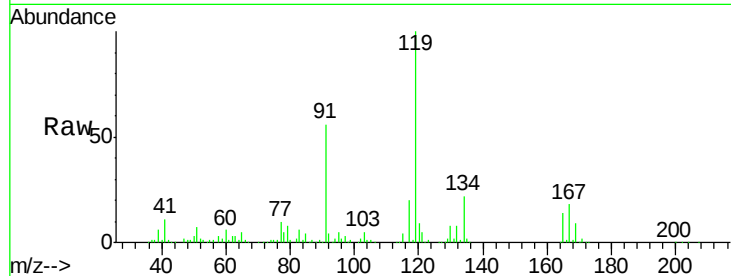
#83
 tert-Butylbenzene
 Concen: 20.765 ug/l
 RT: 11.08 min Scan# 3107
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100			
91	56.0	27.8	83.4	
134	23.2	11.7	35.0	

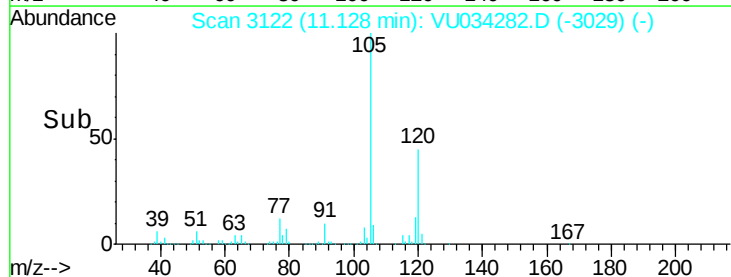
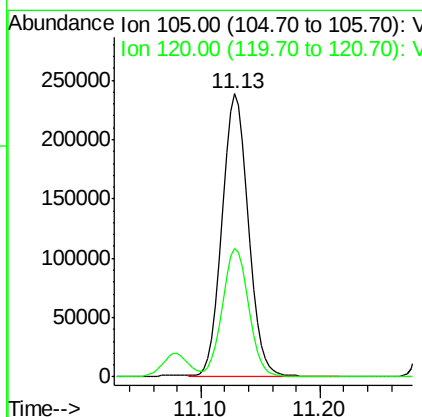
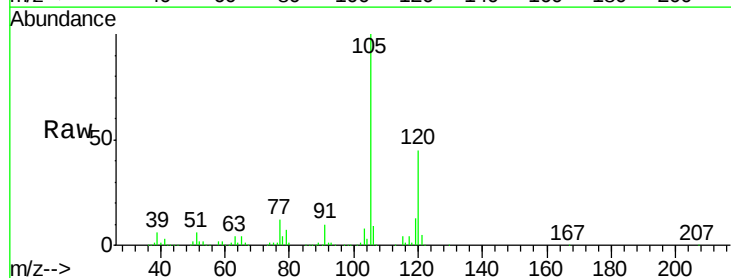
Manual Integrations
 APPROVED

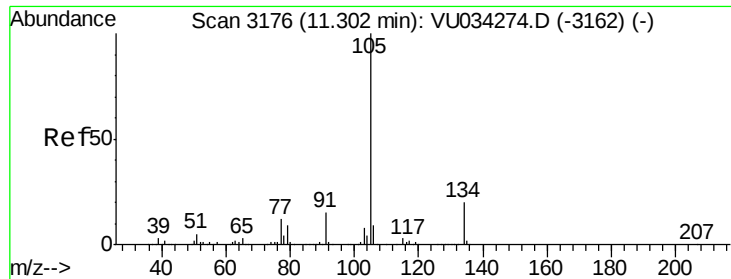
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.489 ug/l
 RT: 11.13 min Scan# 3122
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Resp	Lower	Upper
105	100			
120	45.5	22.9	68.8	





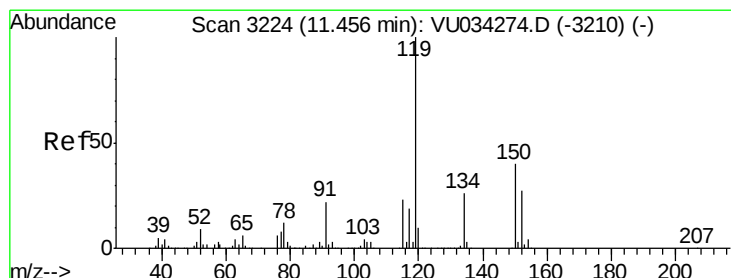
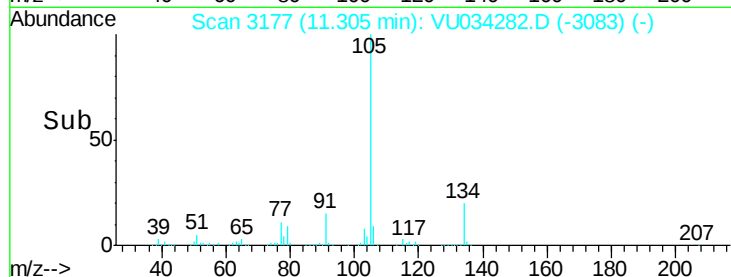
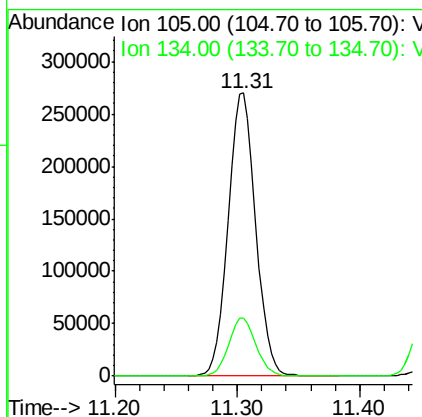
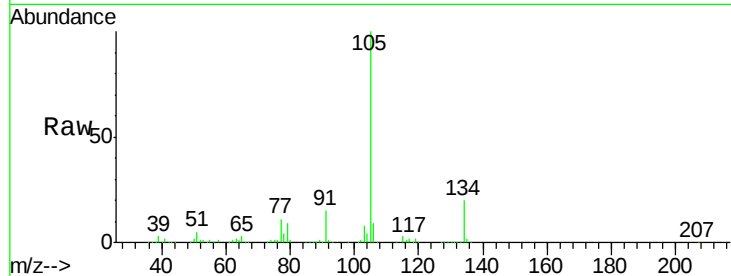
#85
 sec-Butylbenzene
 Concen: 21.242 ug/l
 RT: 11.31 min Scan# 3177
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.1	30.3

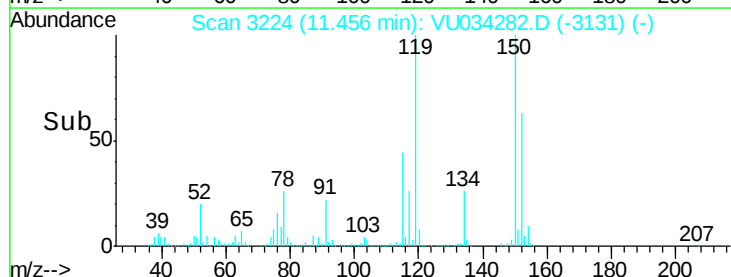
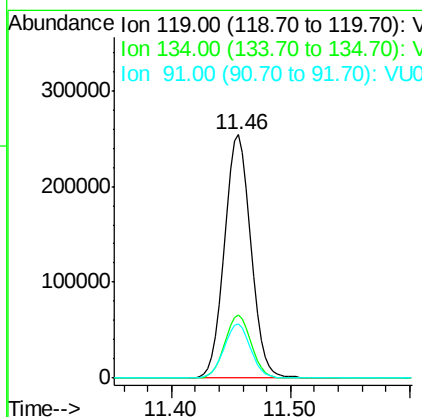
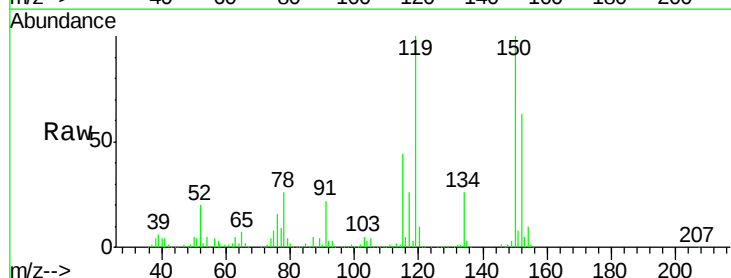
Manual Integrations
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#86
 p-Isopropyltoluene
 Concen: 21.168 ug/l
 RT: 11.46 min Scan# 3224
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.3	39.8
91	22.3	11.2	33.6





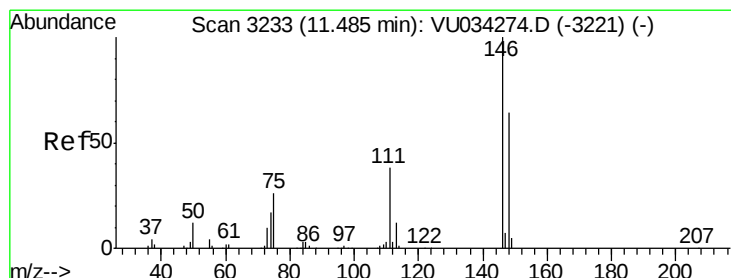
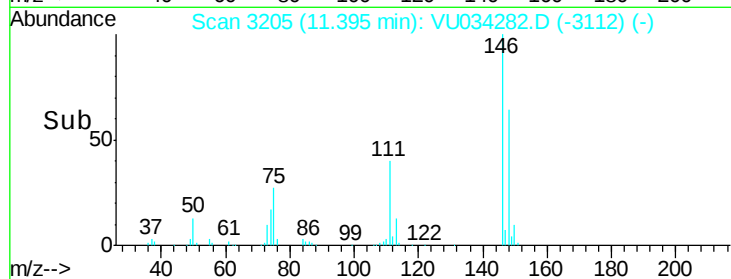
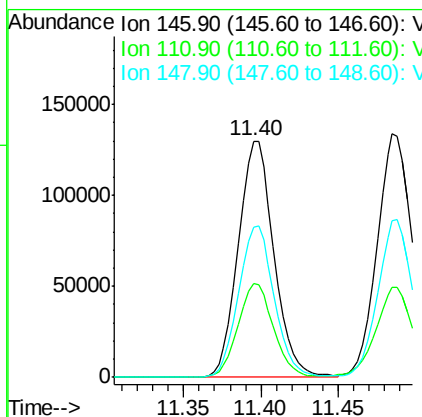
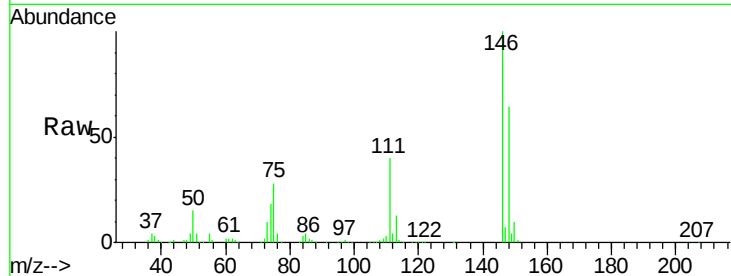
#87
 1,3-Dichlorobenzene
 Concen: 20.228 ug/l
 RT: 11.40 min Scan# 3205
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Instrument :
 MSVOA_U
 ClientSampled :
 VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.5	58.5
148	64.0	32.1	96.3

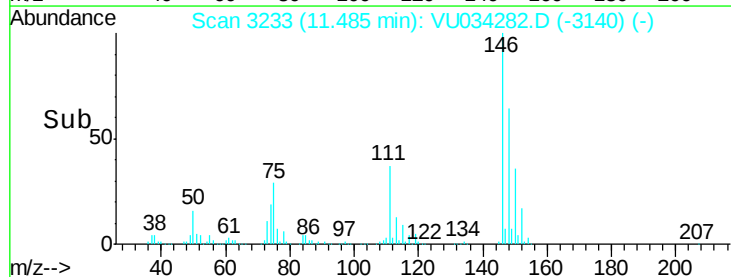
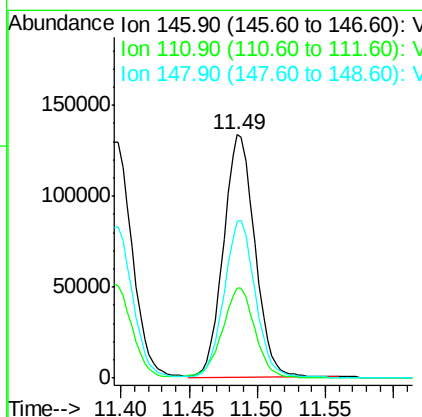
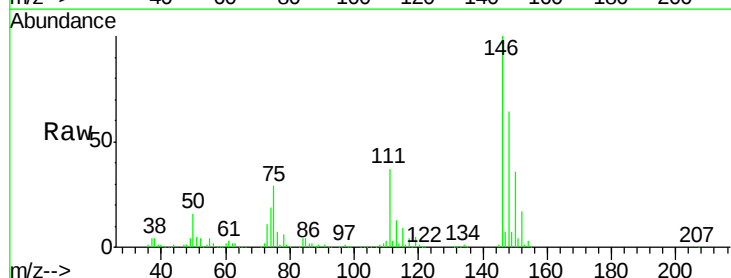
Manual Integrations
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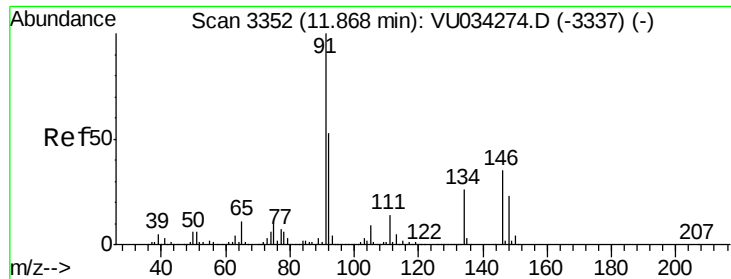
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 9/6/2019 3:21:57 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.867 ug/l
 RT: 11.49 min Scan# 3233
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.1	57.3
148	64.7	32.0	96.0





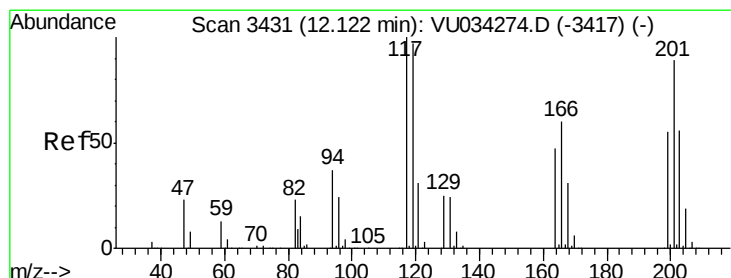
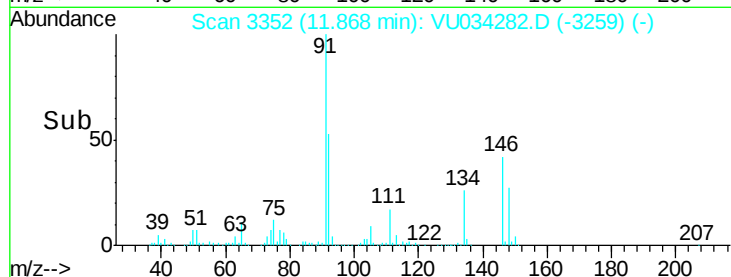
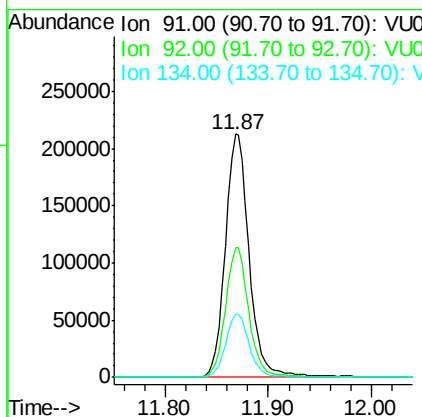
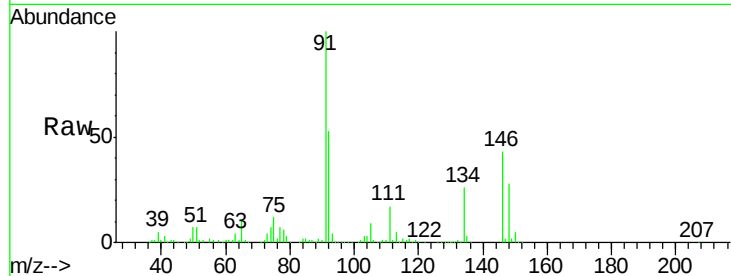
#89
n-Butylbenzene
Concen: 21.239 ug/l
RT: 11.87 min Scan# 3352
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Instrument :
MSVOA_U
ClientSampleId :
VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.5	79.4
134	26.0	13.2	39.6

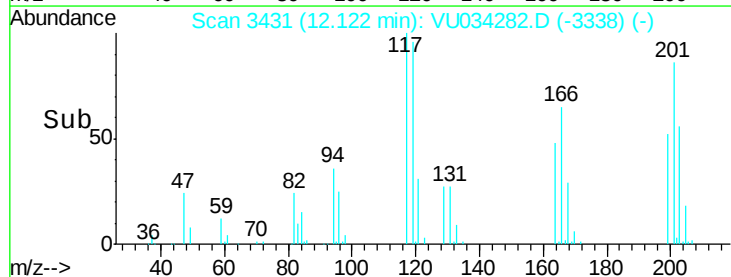
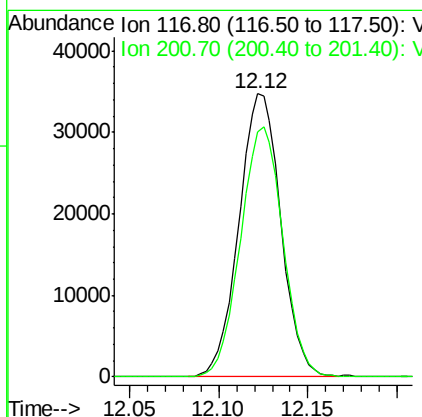
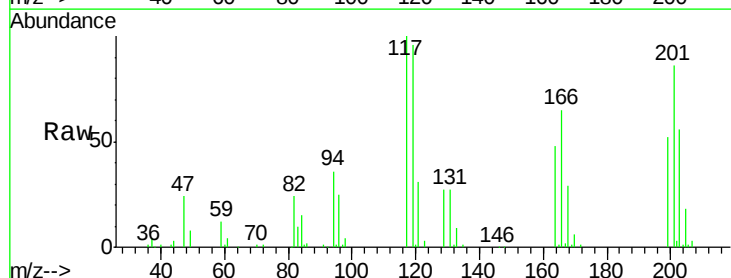
Manual Integrations
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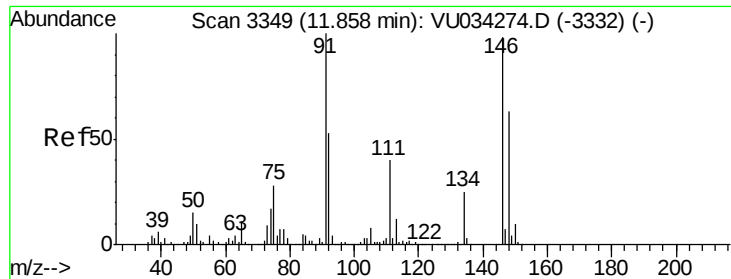
MMDadoda
9/6/2019 3:21:57 PM



#90
Hexachloroethane
Concen: 19.261 ug/l
RT: 12.12 min Scan# 3431
Delta R.T. 0.00 min
Lab File: VU034282.D
Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.2	44.1	132.4





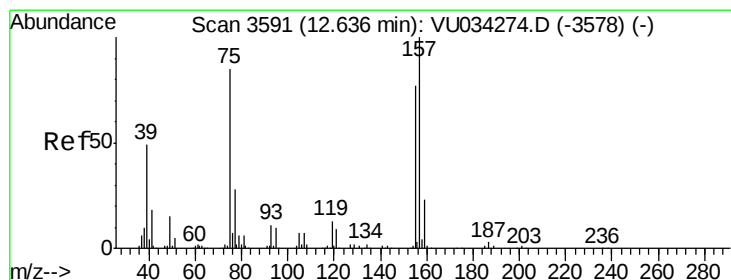
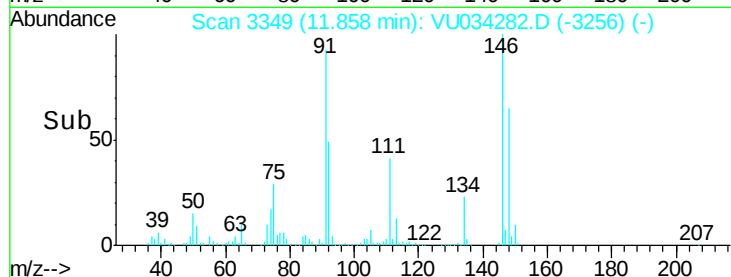
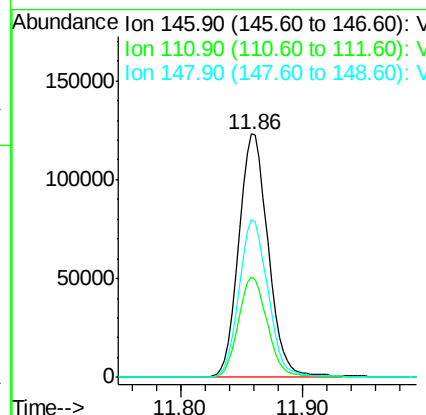
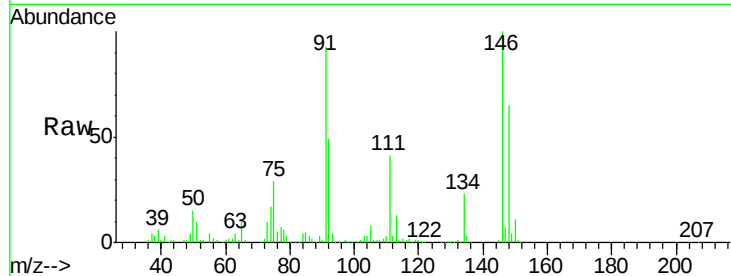
#91
 1,2-Dichlorobenzene
 Concen: 20.344 ug/l
 RT: 11.86 min Scan# 3349
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.0	60.0
148	64.1	31.6	94.8

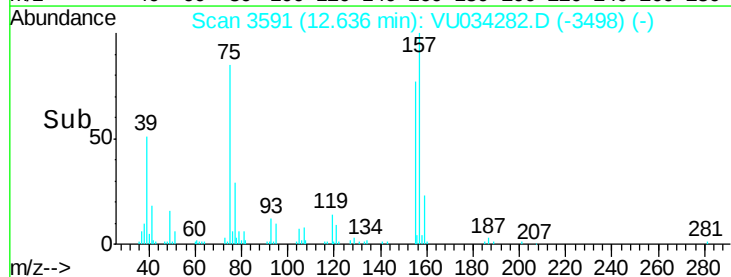
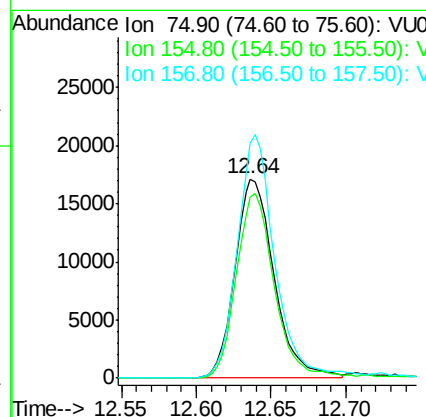
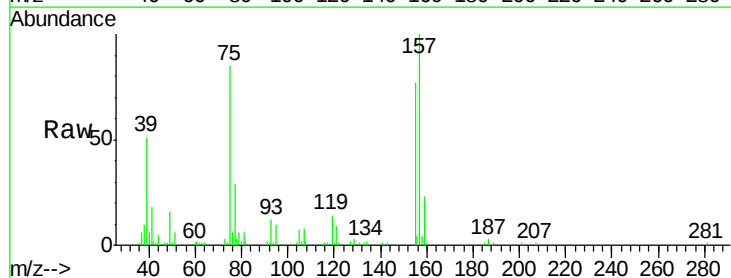
Manual Integrations
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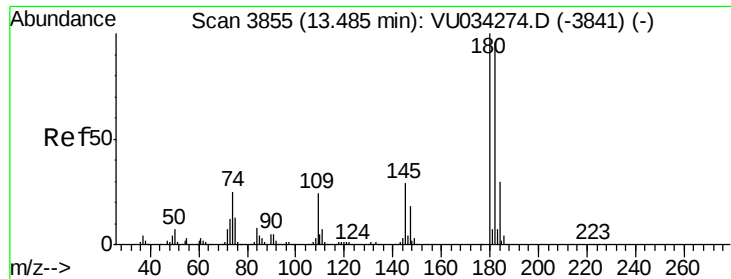
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.786 ug/l
 RT: 12.64 min Scan# 3591
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.2	44.6	134.0
157	117.2	58.2	174.6





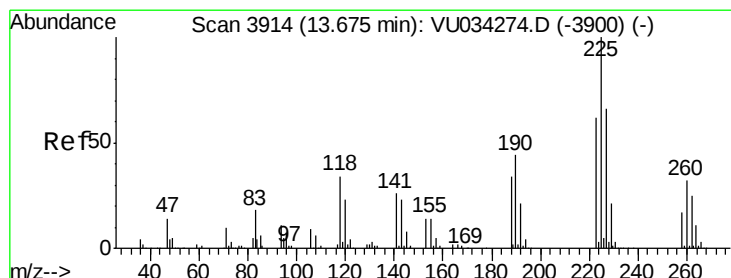
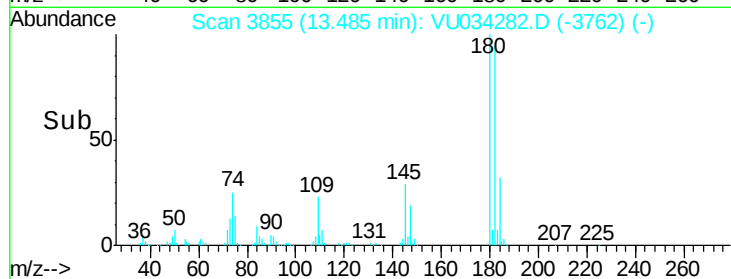
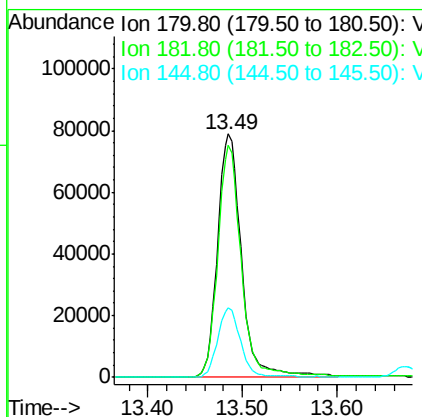
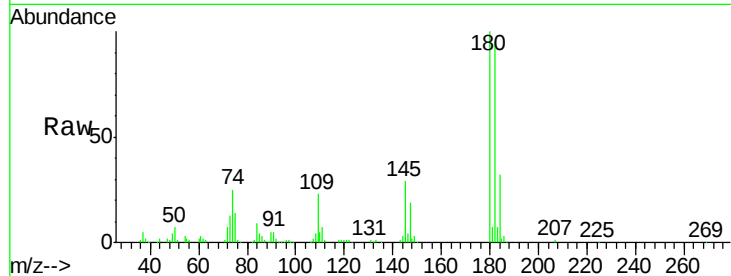
#93
 1,2,4-Trichlorobenzene
 Concen: 21.068 ug/l
 RT: 13.49 min Scan# 3855
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0906WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	139178		
182	92.6	47.9	143.8	
145	26.8	14.4	43.0	

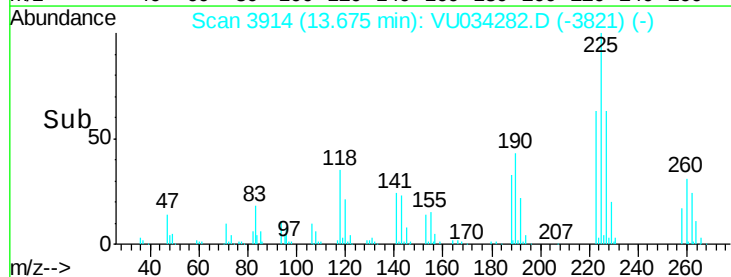
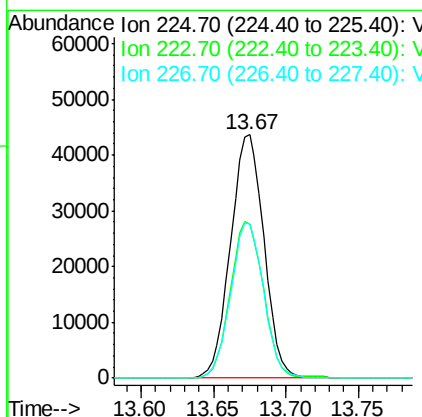
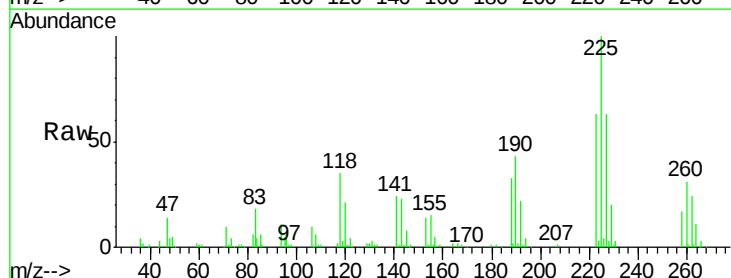
Manual Integrations
 APPROVED

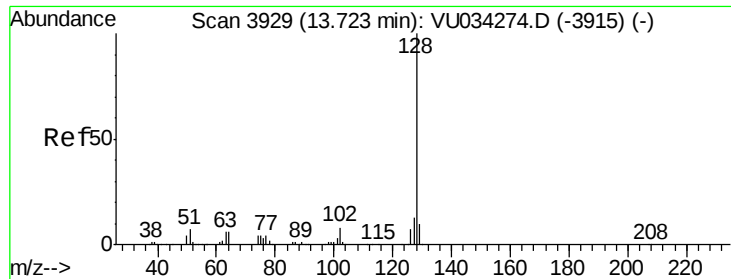
MMDadoda
 9/6/2019 3:21:57 PM



#94
 Hexachlorobutadiene
 Concen: 19.689 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. 0.00 min
 Lab File: VU034282.D
 Acq: 05 Sep 2019 14:35

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	69843		
223	63.6	31.6	94.7	
227	62.8	32.3	96.8	





#95

Naphthalene

Concen: 21.078 ug/l

RT: 13.73 min Scan# 3930

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Instrument :

MSVOA_U

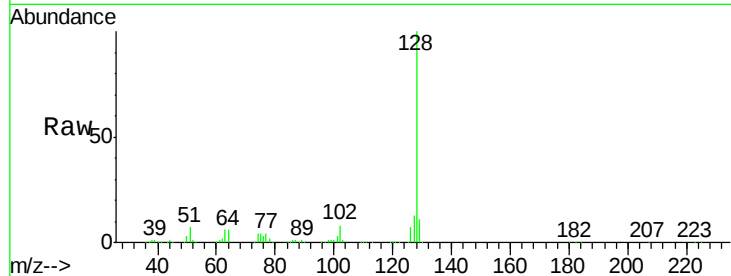
ClientSampleId :

VU0906WBSD01

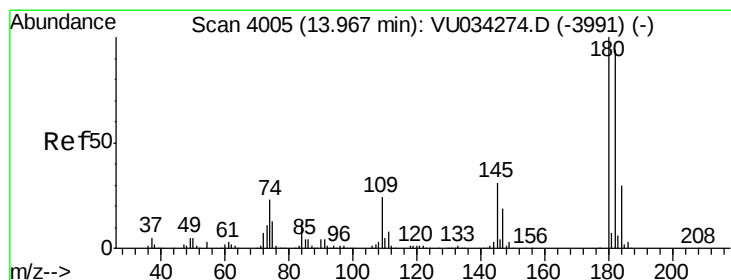
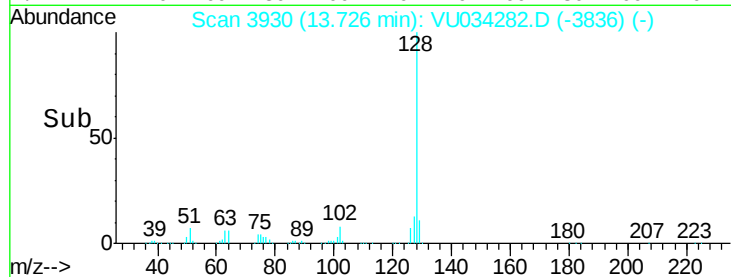
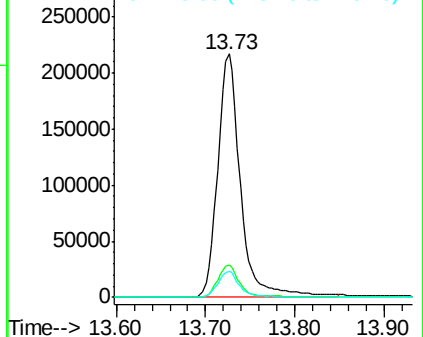
Tot Ion:	128	Resp:	384946
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.6	15.8
129	9.7	8.4	12.6

Manual Integrations
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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 20.704 ug/l

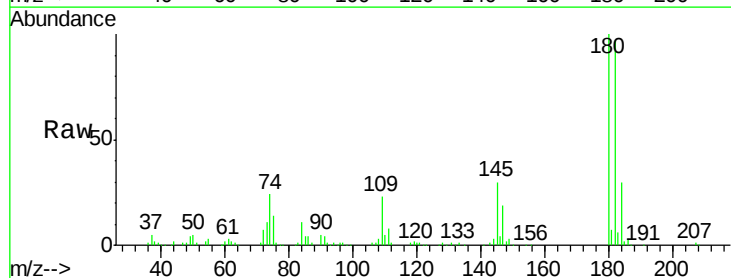
RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU034282.D

Acq: 05 Sep 2019 14:35

Tgt Ion:	180	Resp:	135488
Ion Ratio	Lower	Upper	
180	100		
182	99.0	48.4	145.0
145	30.2	15.4	46.4



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

